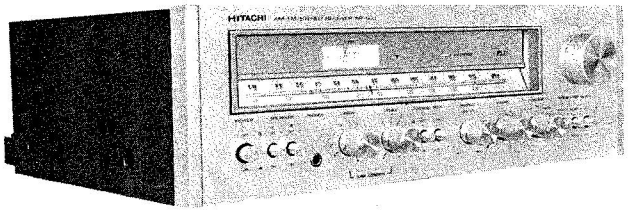
HITACHI

SR-503
SR-603

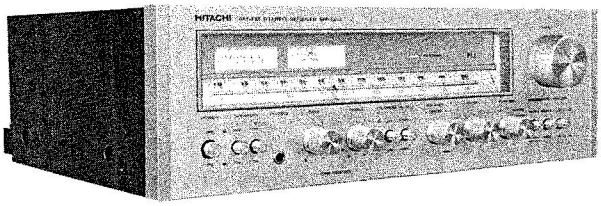
SERVICE MANUAL

English
Français

No. 108



SR-503



SR-603

SPECIFICATIONS

- **FM SECTION**

Frequency range	88 – 108 MHz		
Usable sensitivity	Mono : 11.2 dBf (2.0μV)		
50 dB Quieting sensitivity	Mono : 17 dBf (3.9μV)	Stereo : 37 dBf (39μV)	( ) is indicated IHF '58
Signal-to-noise ratio (at 65 dBf)	Mono : 74 dB	Stereo : 67 dB	
Harmonic distortion (at 65 dBf)			
100Hz	Mono : 0.15%	Stereo : 0.3%	
1 kHz	Mono : 0.15%	Stereo : 0.3%	
6 kHz	Mono : 0.2%	Stereo : 0.4%	
Frequency response	30 Hz – 12kHz ($^{+0.2}_{-1.5}$dB)		
Image response ratio	50 dB		
Spurious response ratio	80 dB		
IF response ratio	90 dB		
Alternate channel selectivity	60 dB		
Capture ratio	1 dB		
AM suppression	60 dB		
Stereo separation	45 dB (1 kHz)		
Sub carrier suppression	60 dB		
SCA rejection	60 dB		
Muting threshold	21 dBf (6.3μV)		
Antenna input	300 ohms balanced		

- **AM SECTION**

Frequency range	530 – 1,605kHz
Sensitivity	250μV/m (S/N 20 dB), 15μV (IHF, Ext. Antenna)
Image rejection	55 dB
IF rejection	35 dB
Selectivity (IHF)	35 dB
Signal-to-noise ratio	50 dB
Antenna	Ferrite and separate antenna terminal

AM/FM STEREO RECEIVER

January 1977

• AUDIO SECTION

Output

RMS power (Both channel driven)	20 watts (SR-503), 30 watts (SR-603) per channel, min. RMS, at 8 ohms from 20Hz to 20kHz, with no more than 0.3% total harmonic distortion.
	25W/ch + 25W/ch (8 ohms, 1 kHz, T.H.D. 0.3%) (SR-503)
	36W/ch + 36W/ch (8 ohms, 1 kHz, T.H.D. 0.3%) (SR-603)
	30W/ch + 30W/ch (4 ohms, 1 kHz, T.H.D. 0.3%) (SR-503)
	42W/ch + 42W/ch (4 ohms, 1 kHz, T.H.D. 0.3%) (SR-603)
	45W/ch + 45W/ch (8 ohms) (SR-503)
	50W/ch + 50W/ch (8 ohms) (SR-603)
	55W/ch + 55W/ch (4 ohms) (SR-503)
	60W/ch + 60W/ch (4 ohms) (SR-603)
Power bandwidth	10 Hz–50 kHz
Frequency characteristics (AUX, TAPE)	20 Hz–20 kHz (±1 dB)
Harmonic distortion	
(at rated output)	Less than 0.3%
(at ½ rated output)	Less than 0.03%
Intermodulation distortion	
(at rated output)	Less than 0.3%
(at ½ rated output)	Less than 0.05%
Input sensitivity (Impedance)	
(at 22W (SR-503), 32W (SR-603) output, 1 kHz)	
PHONO	2.5 mV (47k ohms)
AUX	200 mV (40k ohms)
TAPE-1	200 mV (40k ohms)
TAPE-2	200 mV (40k ohms)
DIN	450 mV (100k ohms)
Output level	200 mV (PHONO, AUX at rated input)
TAPE OUT	300 mV (FM 400 Hz, 30% dev. input. 1 mV)
	300 mV (AM 400 Hz, 30% mod. input. 5 mV/m)
DIN OUT	40 mV (PHONO at rated input)
Phono overload level (at 1 kHz)	110 mV
Signal-to-noise ratio	
(IHF, A network, rated power)	
PHONO	70 dB
AUX	90 dB
TAPE	90 dB
Damping factor	25 (SR-503), 30 (SR-603) (1 kHz, 8 ohms)
Equalizer	RIAA ±0.3 dB
Bass control	±10 dB (100 Hz)
Treble control	±10 dB (10kHz)
Loudness control	+8 dB (100 Hz), +4 dB (10kHz)
High filter (SR-603)	–6 dB at 10kHz
Semi-conductor	1 FET, 4ICs, 14 Transistors and 18 Diodes (SR-503)
	1 FET, 4ICs, 18 Transistors and 22 Diodes (SR-603)
Power supply	AC 120V 60Hz
Power consumption	115W or 130VA (SR-503), 145W or 170VA (SR-603)
Dimensions	$17\frac{1}{8}$ (W) x $5\frac{11}{16}$ (H) x $14\frac{11}{32}$ (D) in.
	43.5(W) x 13.4(H) x 35.9(D) cm
Weight SR-503	7.6kg (16.7 lbs.)
SR-603	8.0kg (17.6 lbs.)

Specifications and designs may be changed without notice for improvement.

CARACTÉRISTIQUES TECHNIQUES

• **Partie FM**	Entre parenthèses: IHF '58.
Bande de fréquence	88–108MHz
Sensibilité utilisable	Mono: 11,2 dBf (2,0μV)
Seuil de sensibilité 50 dB	Mono: 17 dBf (3,9μV)
	Stereo: 37 dBf (39μV)
Rapport signal/bruit	Mono: 74 dB
(65 dBf)	Stereo: 67 dB
Distorsion harmonique (65 dBf)	
100Hz	Mono: 0,15%
	Stereo: 0,3%
1 kHz	Mono: 0,15%
	Stereo: 0,3%
6 kHz	Mono: 0,2%
	Stereo: 0,4%
Réponse de fréquence	30Hz–12 kHz ($\pm^{0,2}_{1,5}$ dB)
Rapport de sélectivité	50 dB
Rapport de réception non sélective	80 dB
Rapport de réception de moyenne fréquence	90 dB
Sélectivite du canal de rechange	60 dB
Rapport de captage	1 dB
Suppression AM	60 dB
Séparation stéréo	45 dB (1 kHz)
Filtrage de la sous-porteuse	60 dB
Réjection SCA	60 dB
Seul d'élimination des parasites	21 dBf (6,3μV)
Entrée de l'antenne	300 ohms composés
• **Partie AM**	
Bande de fréquence	530–1.605 kHz
Sensibilité	250μV/m (S/B 20 dB), 15μV (Antenne ext., IHF)
Rejet image	55 dB
Rejet FM	35 dB
Sélectivité (IHF)	35 dB
Rapport signal/bruit	50 dB
Antenne	Borne d'antenne séparée et ferrite
• **Partie AUDIO**	
Sortie	
Puissance nominale	20W/ch + 20W/ch (8 ohms, 20Hz–20kHz, T.H.D. 0,3%) (SR-503)
	30W/ch + 30W/ch (8 ohms, 20Hz–20 kHz, T.H.D. 0,3%) (SR-603)
	25W/ch + 25W/ch (8 ohms, 1 kHz, T.H.D. 0,3%) (SR-503)
	36W/ch + 36W/ch (8 ohms, 1 kHz, T.H.D. 0,3%) (SR-603)
	30W/ch + 30W/ch (4 ohms, 1 kHz, T.H.D. 0,3%) (SR-503)
	42W/ch + 42W/ch (4 ohms, 1 kHz, T.H.D. 0,3%) (SR-603)
Puissance nominale	45W/ch + 45W/ch (8 ohms) (SR-503)
	50W/ch + 50W/ch (8 ohms) (SR-603)
	55W/ch + 55W/ch (8 ohms) (SR-503)
	60W/ch + 60W/ch (4 ohms) (SR-603)
Sortie bande passante	10Hz–50 kHz
Bande passante (AUX, TAPE)	20Hz–20 kHz (±1 dB)
Distorsion harmonique	
(à la puissance réelle)	0,3%
(à la moitié de la puissance réelle)	0,03%

Distorsion d'intermodulation	
(à la puissance réelle)	0,3%
(à la moitié de la puissance réelle)	0,05%
Sensibilité d'entrée (impédance)	
(sous 22W (SR-503), 32W (SR-603), 1 kHz de sortie)	
PHONO	2,5 mV (47 k ohms)
AUX	200mV (40 k ohms)
Bande-1	200mV (40 k ohms)
Bande-2	200mV (40 k ohms)
DIN	450mV (100 k ohms)
Bornes de sortie	
TAPE OUT	200mV (PHONO, AUX à l'entrée nominale) 300mV (FM 400Hz, 30% d'entree dev.: 1mV) 300mV (AM 400Hz, 30% d'entrée mod.: 5mV/m)
DIN OUT	40mV (PHONO à l'entrée nominale)
Niveau limite phono (à 1 kHz)	110mV
Rapport signal/bruit	
PHONO	70 dB
AUX	90 dB
TAPE	90 dB
Facteur d'atténuation	25 (SR-503), 30 (SR-603) (1 kHz, 8 ohms)
Compensateur	RIAA ±0,3%
Basse	±10 dB (100Hz)
Aigu	±10 dB (10 kHz)
Sonorité	+8 dB (100Hz), +4 dB (10 kHz)
High filter (SR-603)	−6 dB (10 kHz)
Semi-conductor	1 FET,4 ICs, 14 Transistors et 18 Diodes (SR-503) 1 FET, 4 ICs,18 Transistors et 22 Diodes (SR-603)
Alimentation	Secteur 120V (60Hz)
Consommation	115W (SR-503), 145W (SR-603)
Dimensions	17 1/8 (W) x 5 11/16 (H) x 14 11/32(D) in. 43,5(W) x 13,4(H) x 35,9(D) cm
Poids SR-503	7,6 kg (16,7 lbs.)
SR-603	8,0 kg (17,6 lbs.)

Les caractéristiques techniques et la présentation peuvent être modifiées sans préavis pour des raisons d'améliorations.

FEATURE

Audio Section

1. All-stage Direct-connection Inverted Darlington OCL Amplifier
2. Electronic Protection Circuit (SR-603)
3. New ICs in the Equalizer and Main Amplifier

Tuner Section

1. Dual Gate MOS FET for High Quality FM Tuner
2. High Selectivity and Low Distortion IF Amplifier using a Newly Developed IC and 2 Ceramic Filters
3. Quadrature Detection
4. Phase Lock Loop for FM/MPX Circuit
5. A Ceramic Filter, IC in AM Tuner
6. Two Large Easy-to-read meters (SR-603) and A Large-sized Flywheel Tuning knob

CARACTÉRISTIQUES

Section Audio

1. Amplificateur à circuit Darlington OCL à inversion et à connexion directe pour tous les étages
2. Circuit électronique de protection (SR-603)
3. De nouveaux circuits intégrés dans l'égalisateur et dans l'amplificateur principal

Section Tuner

1. Tuner FM de haut de gamme
2. Amplificateur FI à faible taux de distorsion et haute selectivité employant des circuit intégrés et deux filters ceramiques
3. Détection quadriphonique
4. Boucle à blocage de phase pour le circuit FM/MPX
5. Un filtre céramique, circuit intégré dans le tuner AM
6. Deux mètreurs à lecture facile et une molette de syntonisation utilisant un volant de large dimension

DISASSEMBLY AND REPLACEMENT · DEMONTAGE ET REMPLACEMENT

1. REMOVING THE CABINET, FRONT PANEL & BOTTOM PLATE
DÉPOSER LE COFFRAGE, LE PANNEAU AVANT ET LA PLAQUE INFÉRIEURE

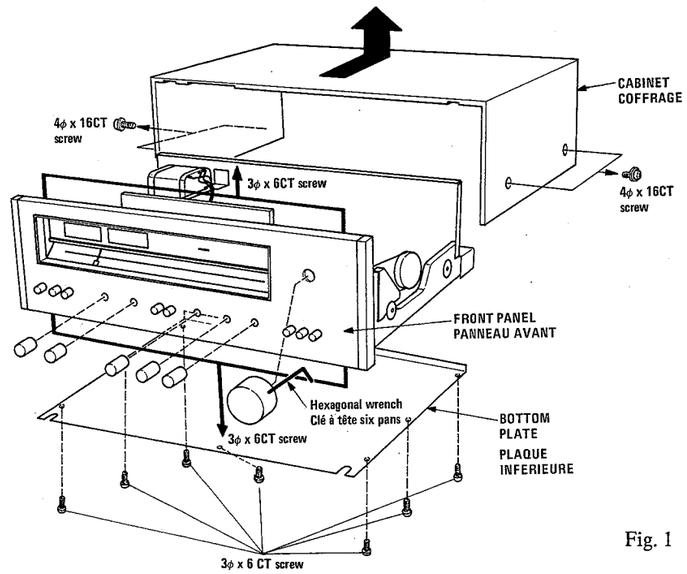


Fig. 1

2. TUNER INPUT METER REPLACEMENT
REMPLACEMENT DU MÉTREUR DE SORTIE DU TUNER

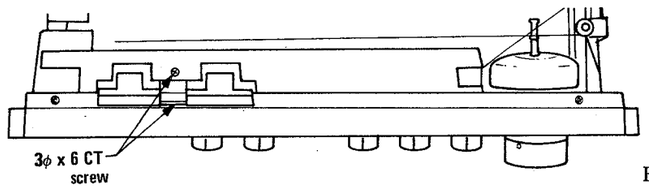


Fig. 2

3. FRONT END, TUNER & MAIN PRINTED WIRING BOARD REMOVAL
ENLÈVEMENT DU TABLEAU DU RÉSEAU IMPRIMÉ DU FRONT END, TUNER ET MAIN

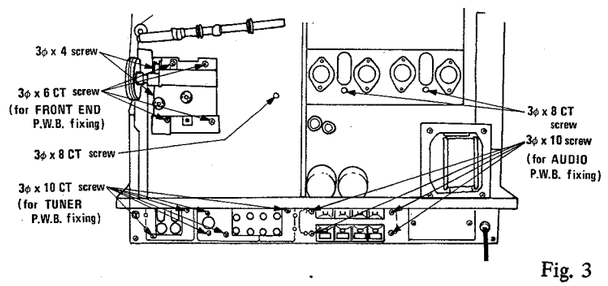

3φ x 4 screw
3φ x 6 CT screw (for FRONT END P.W.B. fixing)
3φ x 8 CT screw
3φ x 10 CT screw (for TUNER P.W.B. fixing)
3φ x 8 CT screw
3φ x 10 screw (for AUDIO P.W.B. fixing)

Fig. 3

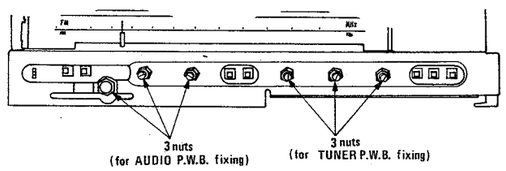


Fig. 4

PROTECTION CIRCUIT (SR-603)

1. MUTING CIRCUIT

(Show the circuit diagram in Fig. 5 at page 7.)
A muting circuit, which turns off the relay for 3–6 sec. after the power switch is turned off, is employed to remove click noise at the start of circuit operation when the power switch is turned ON.
In the Fig. 5, C501 is charged via R502 and R503 when the power switch is turned ON. As a result, voltage is generated between B–E of Q503, and Q503 turns on. When C501 is completely charged, Q503 turns off, Q504 turns on, causing current to flow to the relay and turn the speaker terminal on.

2. DC VOLTAGE DETECTION CIRCUIT (PROTECTION OF SPEAKER)

In the OCL amplifier, when any trouble occurs, DC voltage appears at the speaker terminal and may damage the speakers. To prevent this any DC voltage is detected by the filter circuit of R508, C502. When it is (+) voltage, the relay turns off through Q501 ON–Q504 OFF. When the voltage is (–), the relay turns off (same as for (+)) the voltage through Q502 ON Q503 ON Q504 OFF. This circuit naturally assumes its normal condition when DC voltage is no longer detected. Also, when the input terminal is touched or any ultra low frequency noise enters, the speaker input is cut for a short time but is restored automatically.

Phenomena and remedy when the protection circuit operates

Type of protection circuit	Phenomenon when the protection circuit operates	Cause	Remedy
1. Muting circuit	About 3–6 sec. after, the power switch is turned on.	———	Normal
2. Speaker protection circuit	1. Sound do not come out. 2. Neutral point voltage ① is more than ± 1.0V.	Trouble in the main amplifier, etc.	Repair the fault. (Be sure to check that neutral point voltage is within ± 150mV.)

CIRCUIT DE PROTECTION (SR-603)

1. CIRCUIT D'ATTENUATION

Pour ôter le claquement au départ du fonctionnement du circuit lorsqu'on ouvre l'interrupteur général, un circuit de blocage est employé. Il coupe le relais 3 à 6 secs après la fermeture de l'interrupteur général.
Sur le Fig. 5, C501 est mis ous tension par R502 et R503 quand l'interrupteur général est ouvert. Par suite, la tension est produite entre B–E du Q503, et Q503 est ouvert. Quand C501 est complètement mis sous tension, Q503 se ferme, Q504, s'ouvre, faisant passer le courant par le relais et ouvrant la borne du haut-parleur.

2. CIRCUIT DE DÉTECTION DE LA TENSION DC (PROTECTION DU HAUT-PARLEUR)

Quand un trouble survient à l'amplificateur OCL, la tension DC apparait à la borne du haut-parleur et ceci peut endommager les haut-parleurs. Un circuit de filtrage R508, C502 détecte la tension DC pour éviter la détérioration. Quand la tension est (+), le relais se ferme par suite de l'ouverture de Q501–fermeture de Q504. Quand la tension est (–) le relais se ferme (même chose que pour le (+)) par suite de l'ouverture de Q502–ouverture de Q503–fermeture de Q504.
Ce circuit entre normalement en fonction quand la tension DC n'est pas trop longue à détecter. Aussi, quand la borne d'entrée du haut-parleur est affectée ou qu'un bruit de fréquence extrèmement basse se produit, l'entrée du haut-parleur est coupée pour un court moment, mais elle est rétablie automatiquement.

Phénomène et remède pendant le fonctionnement du circuit de protection.

Type de circuit de protection	Phénomène pendant le fonctionnement du circuit de protection	Cause	Remède
1. Circuit d'atténuation	Environ 3 à 6 sec. après l'ouverture de l'interrupteur général.	———	Normal
2. Circuit de protection du haut-parleur	1. Il n'y a pas de son. 2. Le voltage au potentiel de la terre ① est de plus de ± 1.0V.	Il y a des défectuosités dans l'amplificateur principal, etc.	Réparez les défauts. (Vérifiez que le voltage au potentiel de la terre se trouve dans les limites de ± 150mV.)

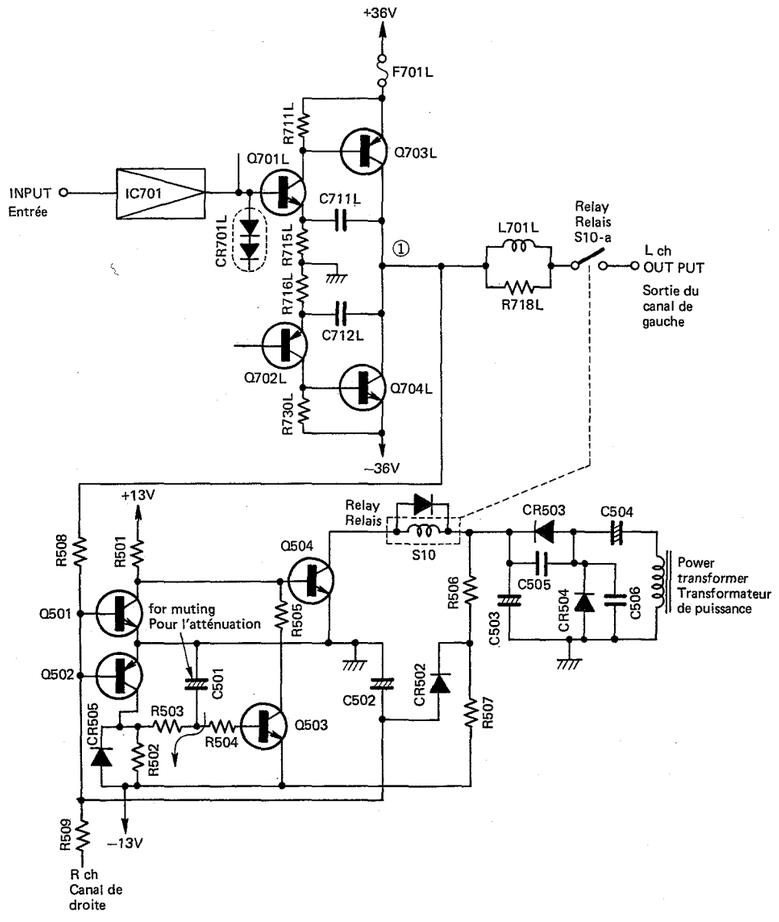


Fig. 5

GENERAL ALIGNMENT INSTRUCTION · INSTRUCTION GENERALE

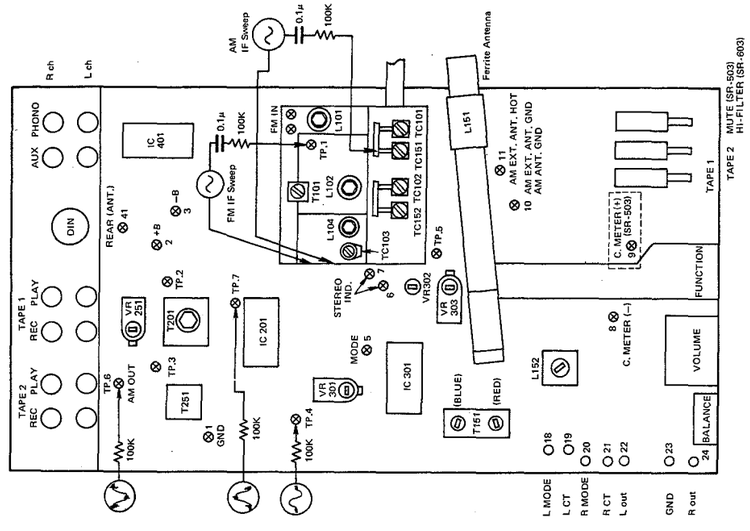


Fig. 6

FM TUNER ALIGNMENT

Test conditions

Set to the switch positions on the SR-503 and SR-603 as follows.

FUNCTION ..... FM
FM MUTING (SR-503) ..... OFF (pressed in)
VOLUME ..... Minimum
POWER ..... ON

Steps		Item	Measuring Instrument	Input Terminal	Output Terminal	Frequency	Adjust	Wave Form
1	(1)	IF Amplifier	10.7MHZ ± 150kHz Sweep Generator	TP 1	TP 7		T101	CAUTION (1)
	(2)	"S" curve		TP 1	TP 4		T201	CAUTION (2)
2	(1)	Covering	2.1 FM signal generator 87.5MHz 400Hz 100% modulated, 60dB at input AC voltmeter	Antenna terminal	REC OUT (L) or SP OUT (L)	87.5MHz (Turn the dial pointer at low frequency end)	L104	Output Max.
	(2)		2.2 FM signal generator 108.5MHz 400Hz 100% modulated, 60dB at input AC voltmeter			108.5MHz (Turn the dial pointer at high frequency end)	TC103	
	(3)							Repeat (1) & (2)
3	(1)	Tracking	3.1 FM signal generator 90MHz 400Hz 100% modulated, 10dB at input AC voltmeter	Antenna terminal	REC OUT (L) or SP OUT (L)	90MHz	L101,L102	Output Max.
	(2)		3.2 FM signal generator 106MHz 400Hz 100% modulated, 10dB at input AC voltmeter			106MHz	TC101,TC102	
	(3)							Repeat (1) & (2)

Steps	Item	Measuring Instrument	Input Terminal	Output Terminal	Frequency	Adjust	Wave Form
4	Discriminate	FM signal generator 98MHz 400Hz 100% modulated, AC voltmeter	Antenna terminal	REC OUT (L) or SP OUT (L)	98MHz	T201 (lower)	Cut the input signal level of FM signal generator and set the pointer of tuning meter to the center mark.
5	Distortion	FM signal generator 98MHz 400Hz 100% modulated, 60dB at input Distortion meter	Antenna terminal	REC OUT (L) or SP OUT (L)	98MHz	T201 (upper)	Adjust T201 so that distortion will become min. CAUTION (3)
6	Output	FM signal generator 98MHz 400Hz 30% modulated, 60dB at input AC voltmeter	Antenna terminal	REC OUT (L)	98MHz	VR301	1V ± 3dB

CAUTION

1. Adjust the core of T101 so that the gain will be max. In this case, reduce the level of the input signal of signal generator so that the waveform will be done shown in Fig. 7.
2. Adjust the primary core (lower) of T201 so that the output is like the S curve shown in Fig. 8 with A and B symmetrical with respect to C.
   Adjust the secondary core (upper) so that the straight line of the S curve can be achieved.
   At the time of adjustment in Caution 1 and 2, center of the marker will sometimes not correspond to that of the waveform because of the ceramic filters used.
3. As the result of the adjustment step 5, the best point of Adjustment from step 4 will be shifted a bit. Repeat the adjustment of step 4 and 5 until the deterioration becomes minimum and the pointer of the tuning meter is in its center.

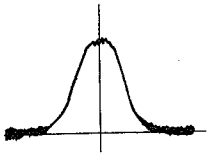


Fig. 7

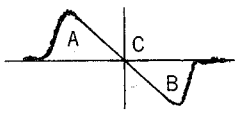


Fig. 8

FM MPX ALIGNMENT

Test conditions

Set to the switch positions on the SR-503 and SR-603 as follows.

FUNCTION ..... FM
FM MUTING (SR-503) ..... OFF (Pressed in)
MODE, STEREO ..... ON
POWER ..... ON

Steps		Item	Measuring Instrument	Input Terminal	Output Terminal	Frequency	Adjust	Wave Form
1		76kHz Free Running Frequency	FM signal generator 98MHz non-modulated 60dB at input AC voltmeter, Frequency counter	Antenna terminal	TP 5	98MHz	VR302	Adjust VR302 so that the counter will indicated 76kHz ± 100Hz. CAUTION (1)
2	(1)	Separation	1. FM signal generator 98MHz, 60dB at input 2. Stereo signal generator Main signal 92% modulated Pilot signal 8% modulated AC voltmeter 3. L.P.F. (13.6kHz)	Antenna terminal	TAPE OUT (L) or SP OUT (L)	98MHz	VR303	After making the signal of Rch and Pilot, adjust VR303 so that the output wave form of Lch becomes min.
	(2)							Optimize VR303 so that the leak level of the Lch signal is equal to that of the Rch signal.

CAUTION

Install the earth terminal of the counter to the frame of the variable capacitor adjacent to T.P. 5.

AM TUNER ALIGNMENT

Test condition

Set to the switch positions on the SR-503 and SR-603 as follows.

FUNCTION ..... AM
POWER ..... ON

Steps		Item	Measuring Instrument	Input Terminal	Output Terminal	Frequency	Adjust	Wave Form
1		IF Amplifier	Sweep generator 455kHz	TC151	TP 6		T151	Gain Max. CAUTION (1)
2	(1)	Covering	AM signal generator 515kHz 400Hz 30% modulated, 50dB at input AC voltmeter	Ferrite antenna	REC OUT or SP OUT	515kHz (Turn the dial pointer at low frequency level)	L152	Gain Max. CAUTION (2)
	(2)		AM signal generator 1650kHz 400Hz 30% modulated, 50dB at input AC voltmeter			1650kHz (Turn the dial pointer at high frequency level)	TC152	
	(3)							Repeat (1) and (2)
3	(1)	Tracking	AM signal generator 600kHz 400Hz 30% modulated,50dB at input AC voltmeter	Ferrite antenna	REC OUT or SP OUT	600kHz	Ferrite antenna	Gain Max. CAUTION (2)
	(2)		AM signal generator 1400kHz 400Hz 30% modulated, 50dB at input AC voltmeter			1400kHz	TC151	
	(3)							Repeat (1) and (2)

CAUTION

1. In item 1, set the capacitance of the variable capacitor to minimum and adjust red and blue cores of T151 so that the waveform is as shown in Fig. 9. As T151 contains a 455kHz ceramic filter, sometimes the center of the marker will not correspond to that of the waveform.
   In this case, neglect the marker. After adjusting as above, increase the output level of the sweep generator and adjust T151 again so that the top of the waveform A (indicated in Fig. 10) will be flat and wide.
2. In items 2 and 3, at the time of first adjustment, set input power at 74dB and adjust obtaining the minimum necessary input power (50dB).

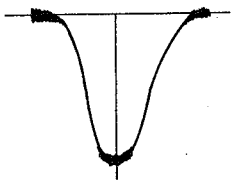


Fig. 9

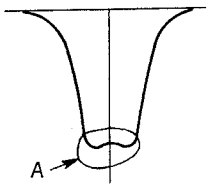


Fig. 10

AUDIO CIRCUIT ALIGNMENT

Test conditions

Set to the switch positions on the SR-503 and SR-603 as follows.

FUNCTION ..... Free
VOLUME ..... Minimum
POWER ..... ON

Carry out the following adjustment 8 minutes after the power switch is turned on.

SR-503

In the SR-503, idle current adjustment is carried out by cutting out the trimming resistor. When Q701L,R, Q702 L,R, Q703L,R, Q704L,R or CR701L,R is replaced and R723L,R, R724L,R, R725L,R or R726L,R is cut out at the same time, carry out the following adjustments after installing these resitors.

Item	Measuring Instrument	Point to be Measured	Value Obtained	Adjust	Value Adjusted
Idle Current	DC voltmeter	Jumper ⑬ : L	15 mV-50 mV		10 mV-60 mV
		Jumper ℓ : R	less than 15 mV	Cut R723L(R) and R724L(R) off	
		CAUTION (1)	greater than 50 mV	Cut R725L(R) and R726L(R) off	

CAUTION

After separating the jumper wire ⑬ and ℓ, connect the 0.47 ohms resistor, then read the voltage at both ends using a DC voltmeter (Balance meter). Connect the jumper wire again after this adjustment is completed.

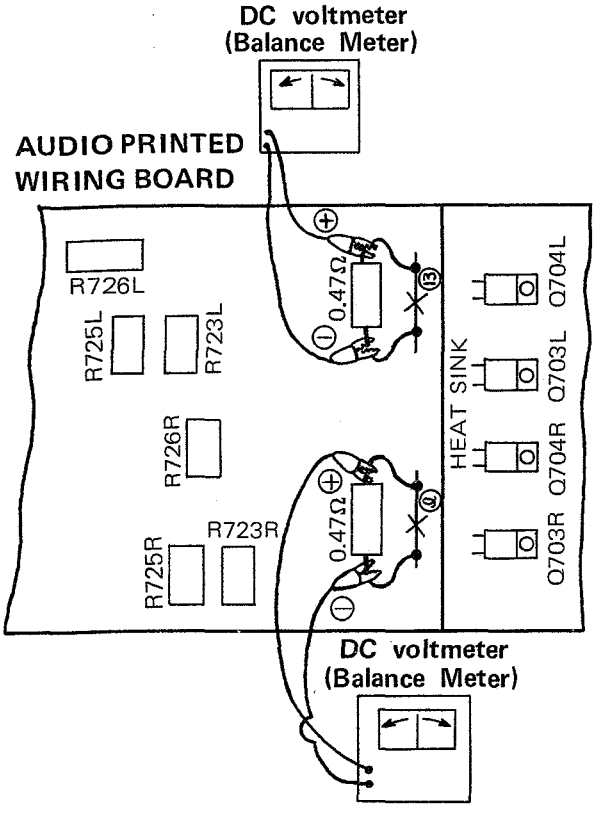


Fig. 11

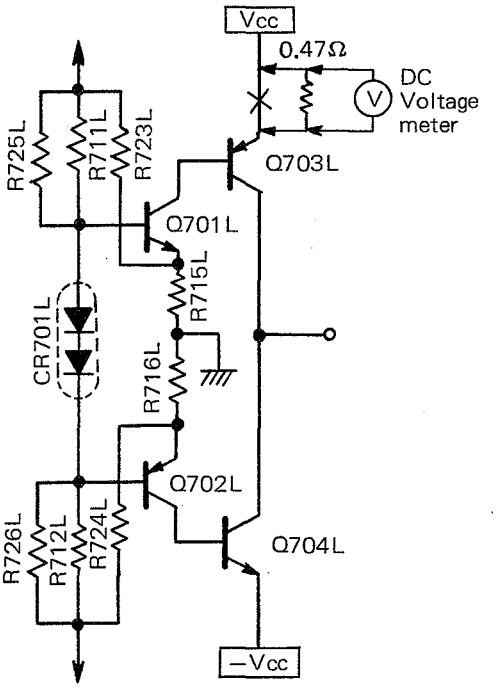


Fig. 12

SR-603

Item	Measuring Instrument	Point to be Measured	Adjust	Value Adjusted
Idle Current	DC voltmeter	F701 L,R CAUTION (1)	VR703 L,R	20^{+15}_{-10}mV (40^{+30}_{-20}mA)

CAUTION

Remove the fuse F701L,R, and after connecting the 0.47 ohms resistor, read the voltage at both ends using a DC voltmeter.

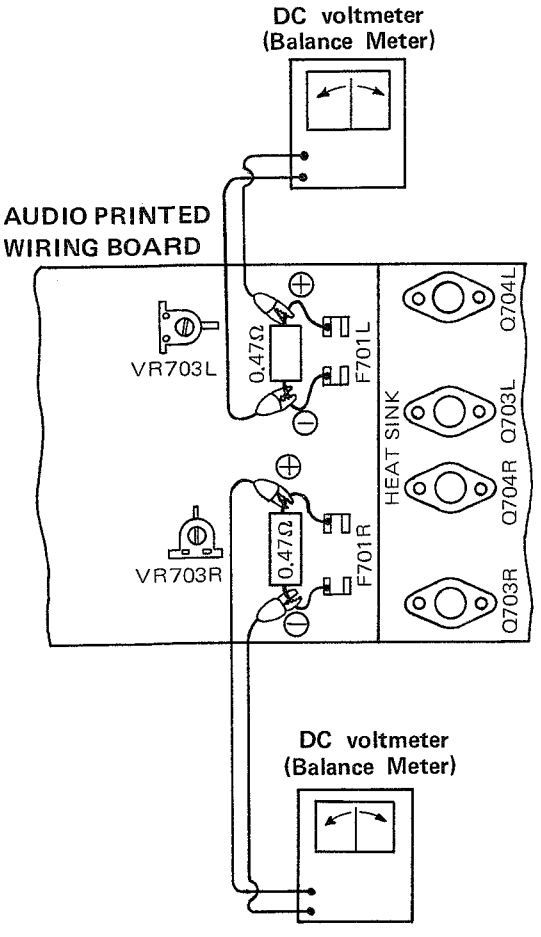


Fig. 13

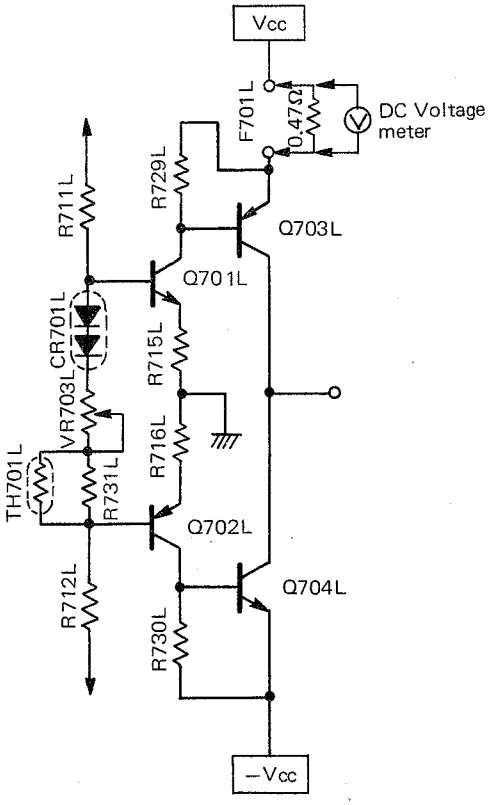


Fig. 14

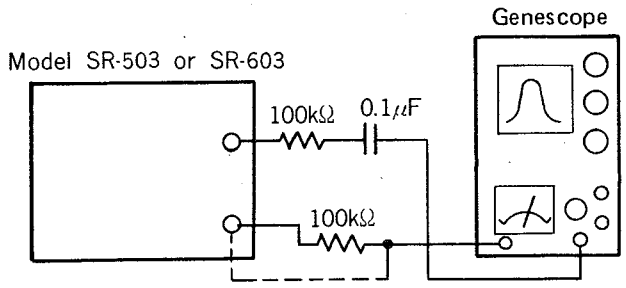


Fig. 15 FM IF Discriminator and AM IF alignments (AM and FM Step. 1)

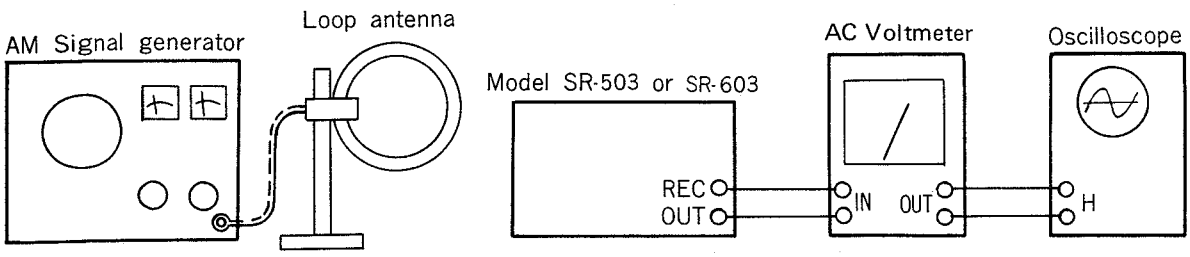


Fig. 16 AM frequency coverange and tracking alignments (Step. 2 and 3)

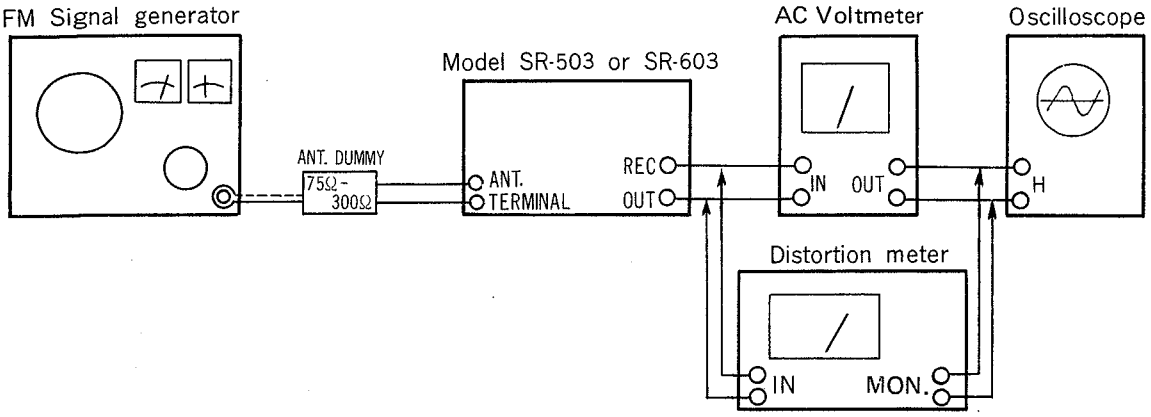


Fig. 17 FM frequency coverange, tracking and other alignments (STEP. 2 to 6)

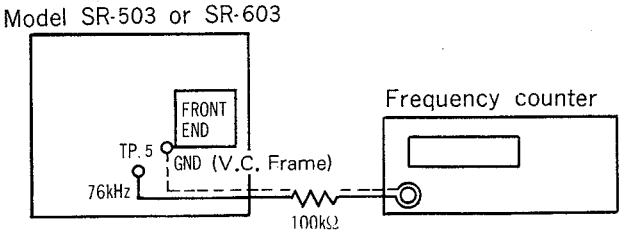


Fig. 18 FM MPX 76 kHz adjustment

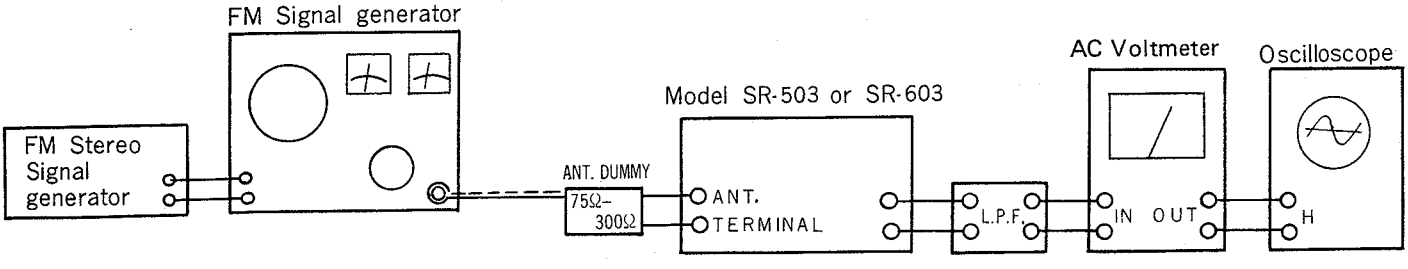
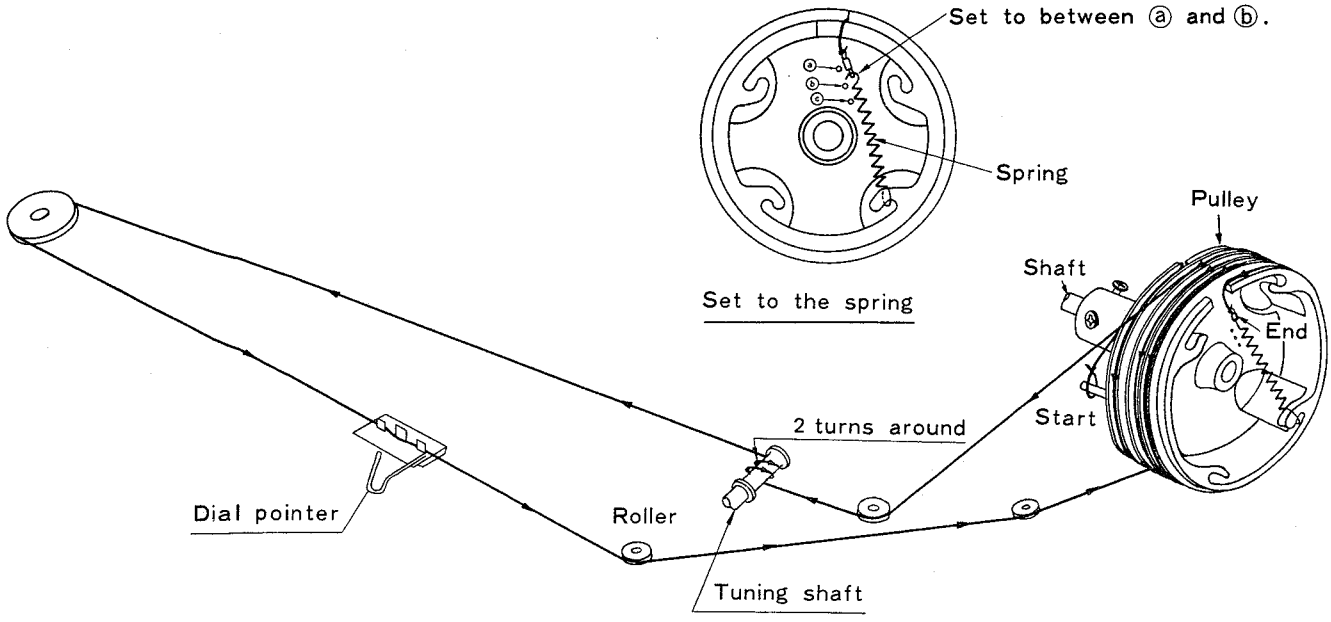


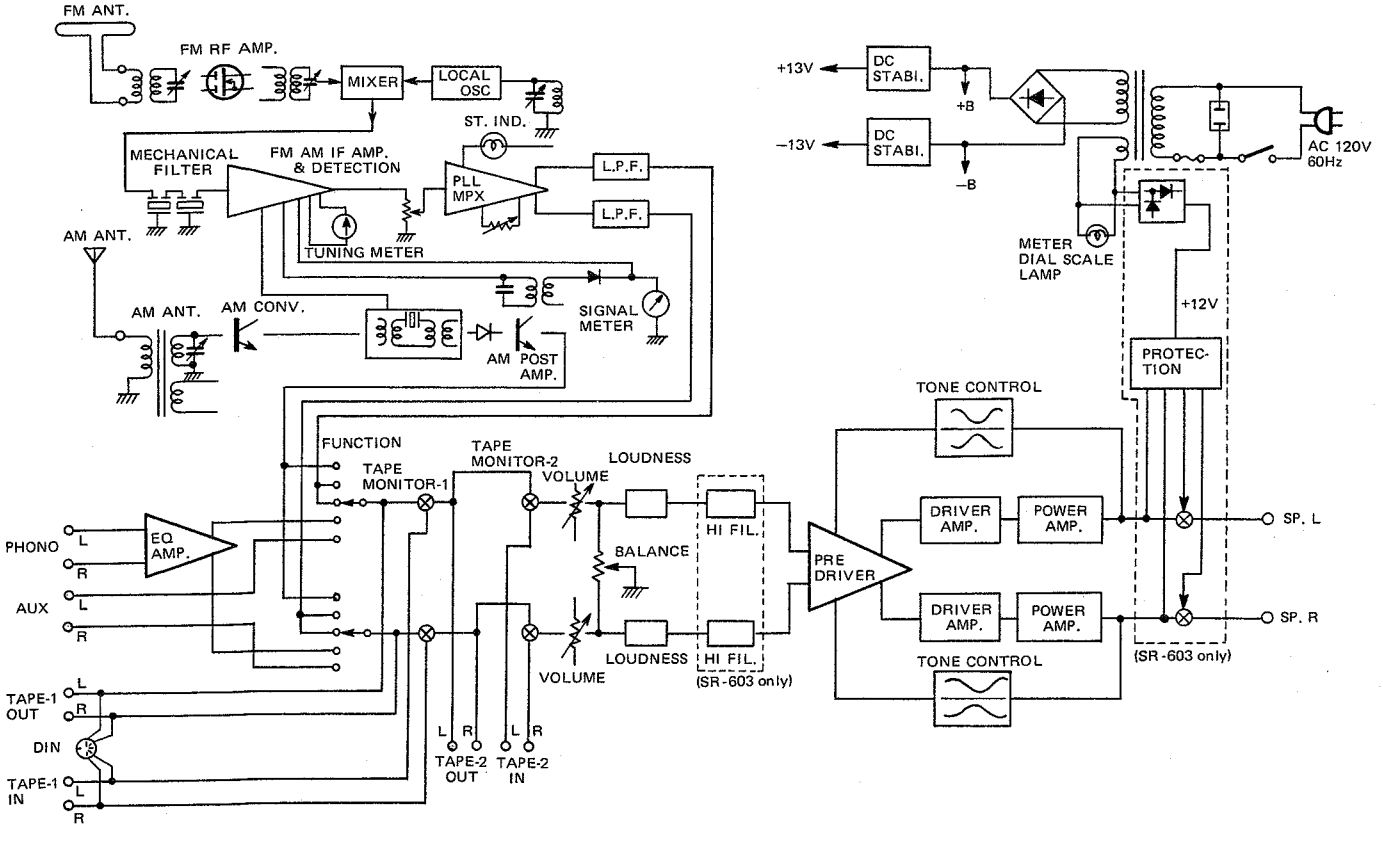
Fig. 19 FM MPX alignments (Step. 2)

DIAL CORD RESTRINGING · REMONTAGE DU FIL D'ENTRAINEMENT



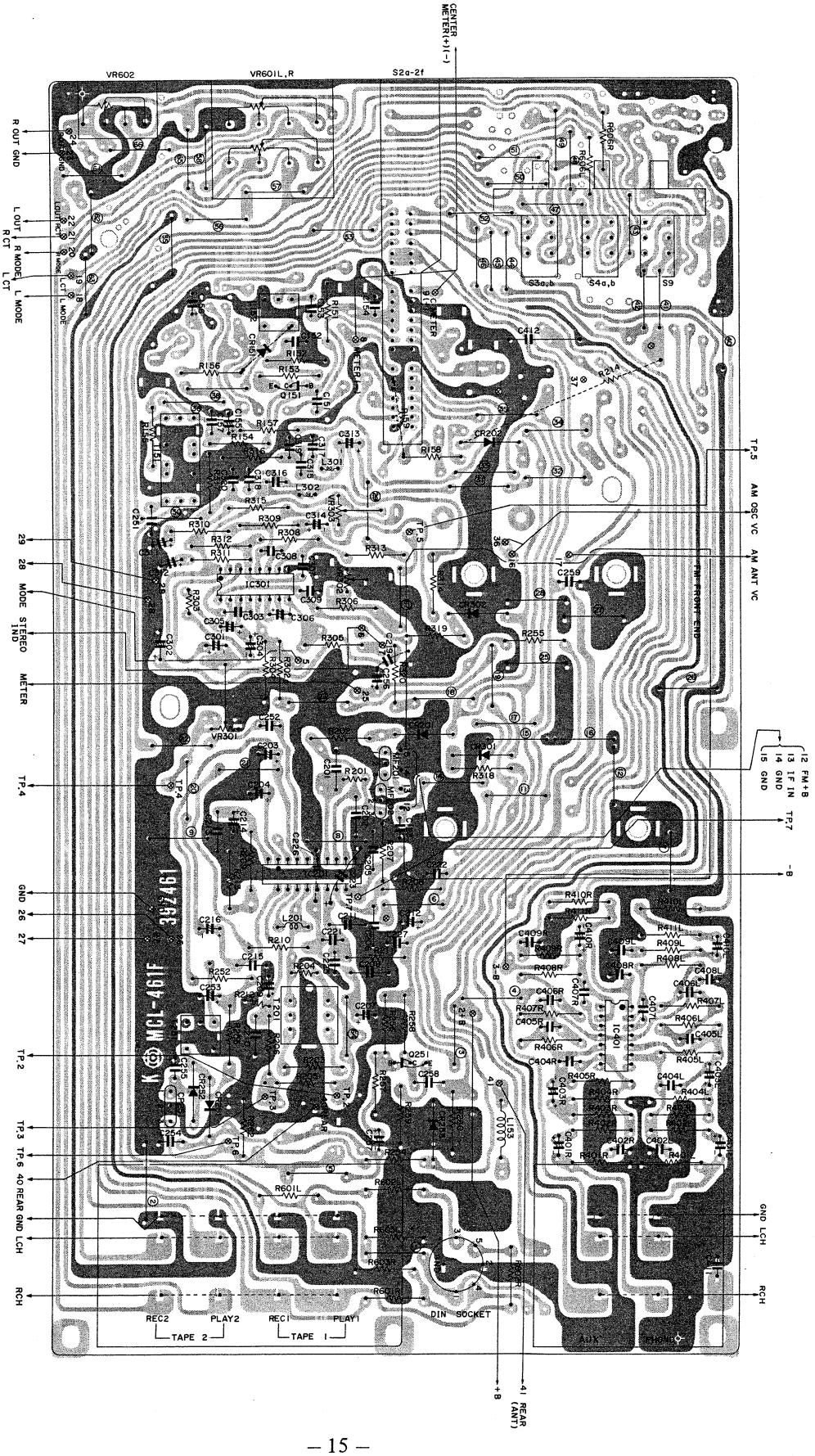
The dial pulley shows the position that the variable condenser is turned to the counterclockwise direction.

BLOCK DIAGRAM · SCHÉMA



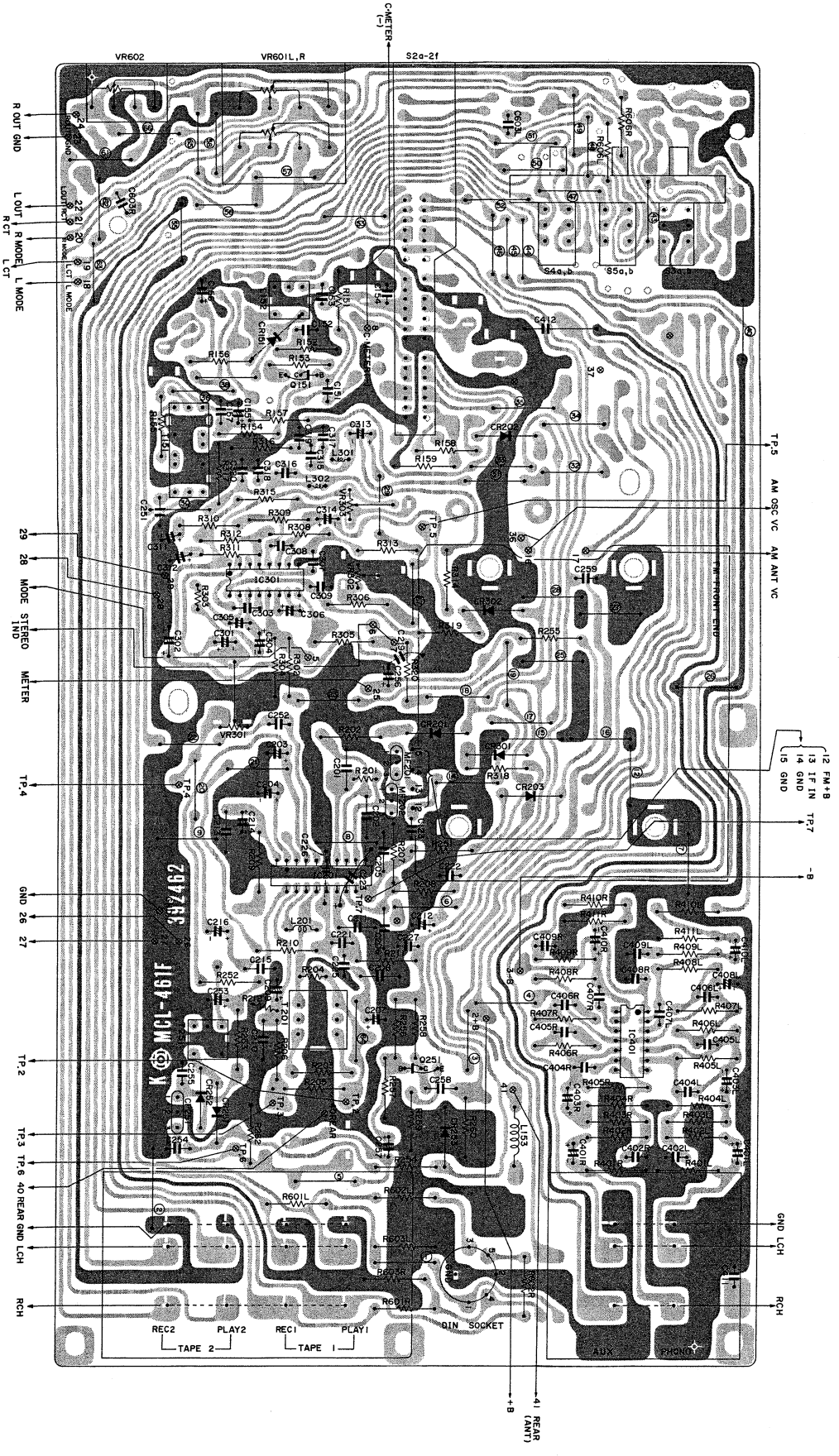
PRINTED WIRING BOARD · PLAN DE BASE
TUNER PRINTED WIRING BOARD (SR-503)

The terminal No. shows the stamp on the printed wiring board. This number matches the number in the circuit diagram.

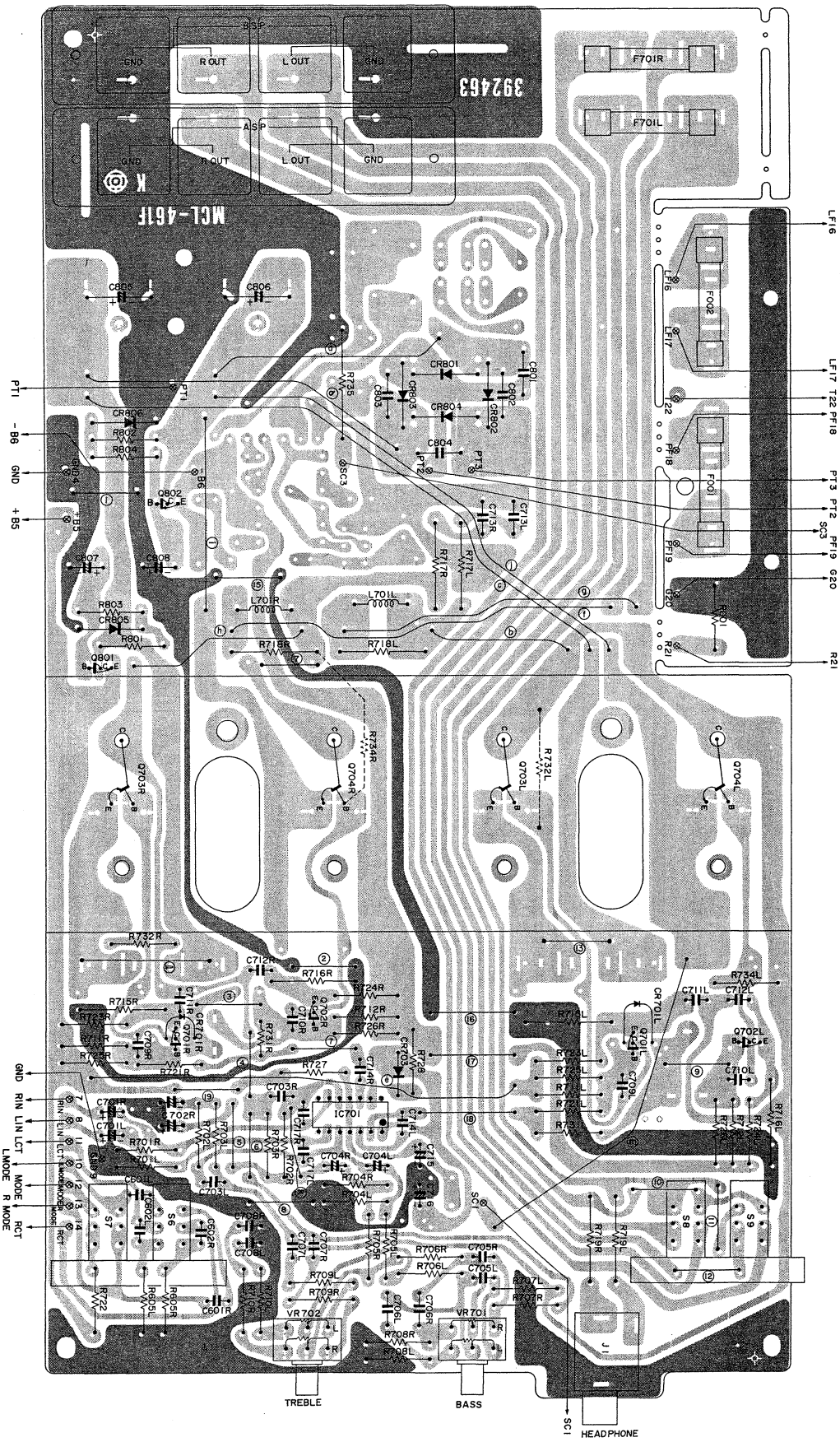


TUNER PRINTED WIRING BOARD(SR-603)

The terminal No. shows the stamp on the printed wiring board. This number matches the number in the circuit diagram.

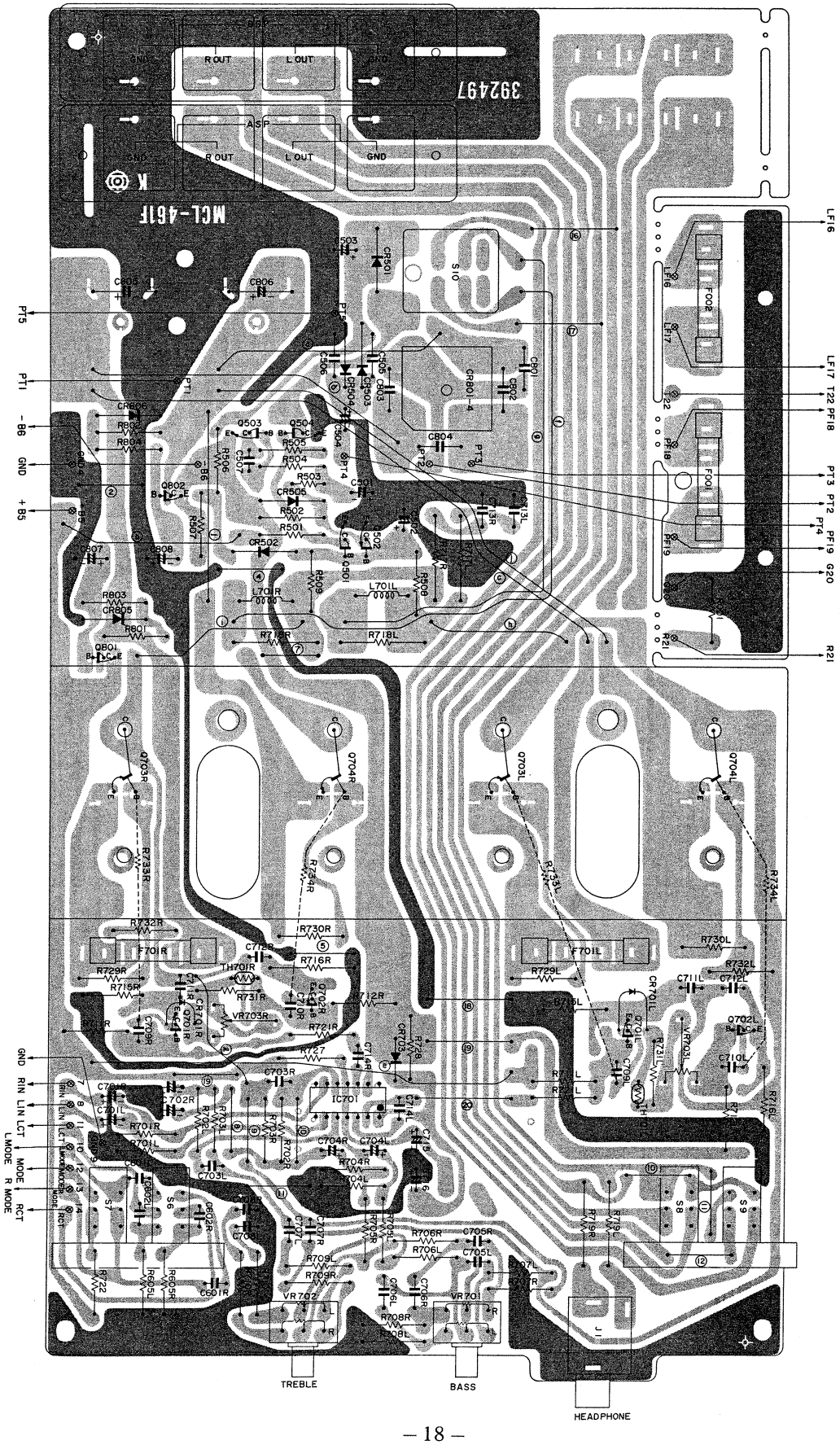


AUDIO PRINTED WIRING BOARD(SR-503)

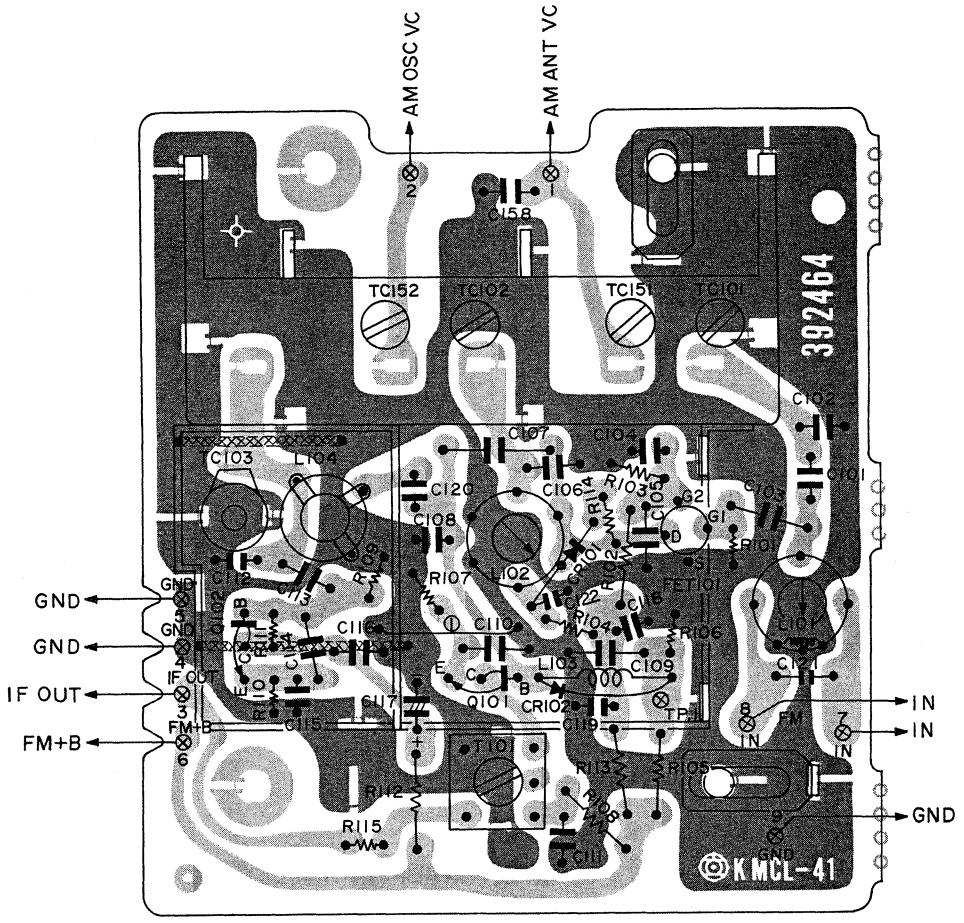


AUDIO PRINTED WIRING BOARD(SR-603)

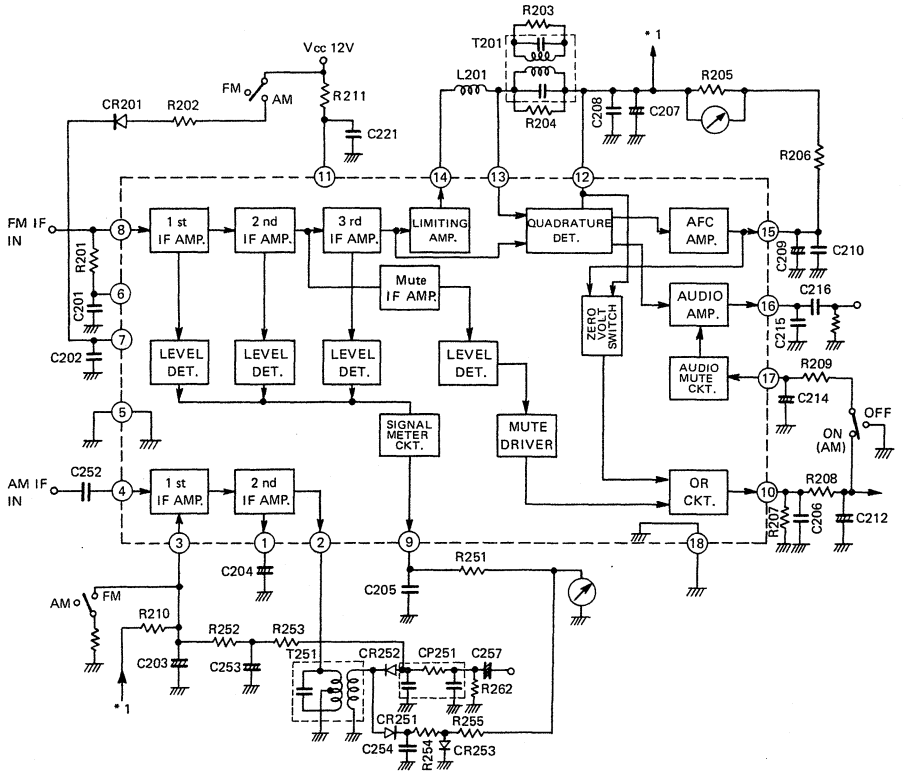
The terminal No. shows the stamp on the printed wiring board. This number matches the number in the circuit diagram.



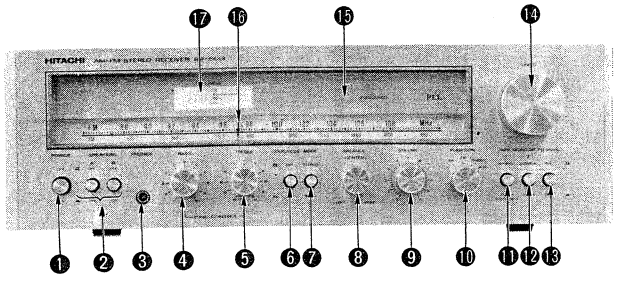
FRONT END PRINTED WIRING BOARD

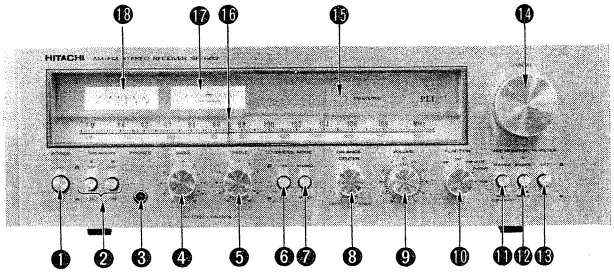


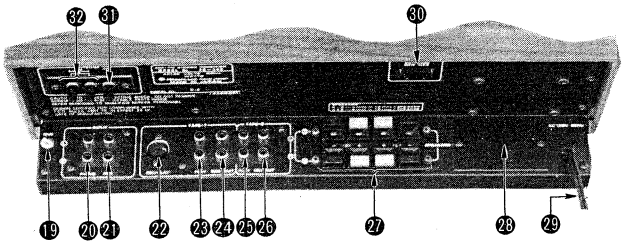
CIRCUIT DIAGRAM HA1211

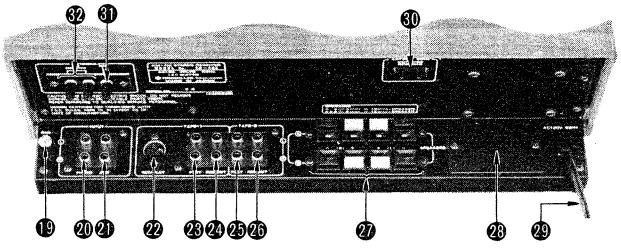


FRONT AND REAR PANEL · PANNEAUX AVANT ET ARRIERE









SR-503

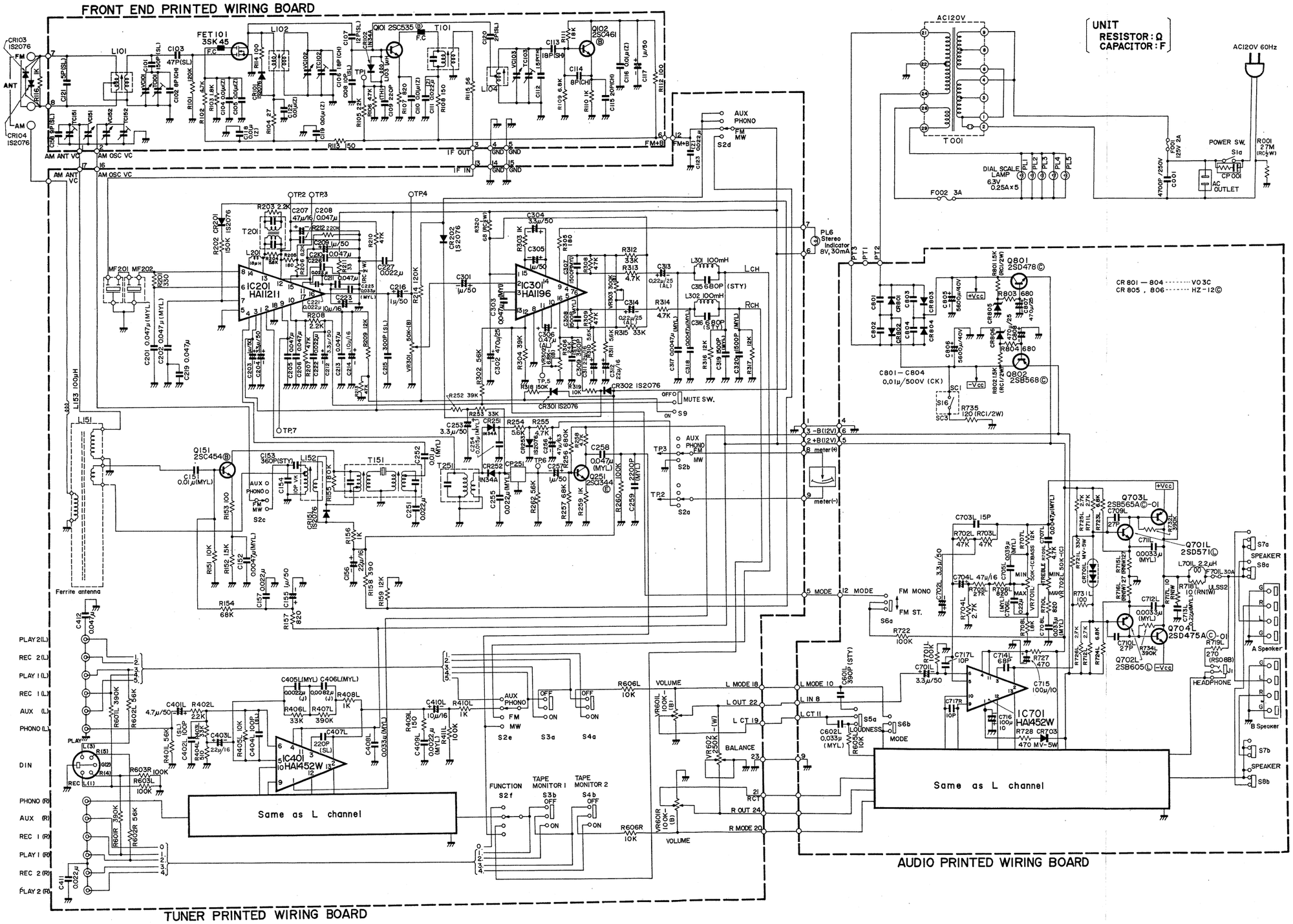
SR-603

❶ POWER SWITCH
❷ SPEAKER SWITCHES
❸ PHONES JACK
❹ BASS CONTROL
❺ TREBLE CONTROL
❻ LOUDNESS SWITCH
❼ MODE SWITCH
❽ BALANCE CONTROL
❾ VOLUME CONTROL
❿ FUNCTION SWITCH
⓫ TAPE MONITOR SWITCH-1
⓬ TAPE MONITOR SWITCH-2
⓭ FM MUTE SWITCH (SR-503)
⓭ HIGH FILTER SWITCH (SR-603)
⓮ TUNING KNOB
⓯ FM STEREO INDICATOR
⓰ DIAL POINTER
⓱ SIGNAL/TUNING METER (SR-503)
⓱ TUNING METER (SR-603)
⓲ SIGNAL METER (SR-603)
⓳ GROUND TERMINAL
⓴ PHONO INPUT TERMINALS
㉑ AUX INPUT TERMINALS
㉒ TAPE-1 DIN REC/PLAY TERMINAL
㉓ TAPE-1 PLAYBACK TERMINALS
㉔ TAPE-1 REC OUT TERMINALS
㉕ TAPE-2 PLAYBACK TERMINALS
㉖ TAPE-2 REC OUT TERMINALS
㉗ SPEAKER TERMINALS
㉘ FUSE (SR-503)
㉙ AC POWER CORD
㉚ AC OUTLET (Switched 50 Watts Max)
㉛ AM ANTENNA TERMINAL
㉜ FM ANTENNA TERMINAL

❶ INTERRUPTEUR SECTEUR
❷ INTERRUPTEUR DE HAUT-PARLEURS
❸ ECOUTEURS STÉRÉOPHONIQUES
❹ COMMANDE DE GRAVE
❺ COMMANDE DES AIGUS
❻ CORRECTEUR PHYSIOLOGIQUE
❼ COMMANDE DE MODE
❽ BALANCE
❾ VOLUME
❿ COMMUTATEUR SÉLECTEUR DE BANDE
⓫ COMMUTATEUR MONITEUR-1
⓬ COMMUTATEUR MONITEUR-2
⓭ COMMUTATEUR FM MUTE (SR-503)
⓭ COMMUTATEUR DU FILTER PASSE-HAUT (SR-603)
⓮ BOUTON D'ACCORD
⓯ INDICATEUR STÉRÉO
⓰ AIGUILLE DIAL
⓱ INDICATEUR D'ACCORD/PUISSANCE DE SIGNAL
⓱ MÈTREUR DE SYNTONISATION (SR-603)
⓲ INDICATEUR D'ACCORD (SR-603)
⓳ PRISE DE TERRE
⓴ BORNE D'ENTRÉE PHONO
㉑ BORNE D'ENTRÉE AUXILIAIRES
㉒ CONNECTEUR D'ENREGISTREMENT/REPRODUCTION DIN
㉓ BORNE PLAYBACK TAPE-1
㉔ BORNE REC OUT TAPE-1
㉕ BORNE PLAYBACK TAPE-2
㉖ BORNE REC OUT TAPE-2
㉗ BORNES DE HAUT-PARLEUR
㉘ FUSIBLE (SR-503)
㉙ CORDON D'ALIMENTATION
㉚ PRISE AUXILIAIRE (UNIQUEMENT 120V)
㉛ BORNE D'ANTENNE OM/OC
㉜ BORNE D'ANTENNE FM OUC

CIRCUIT DIAGRAM · PLAN DE CIRCUIT (SR-503)

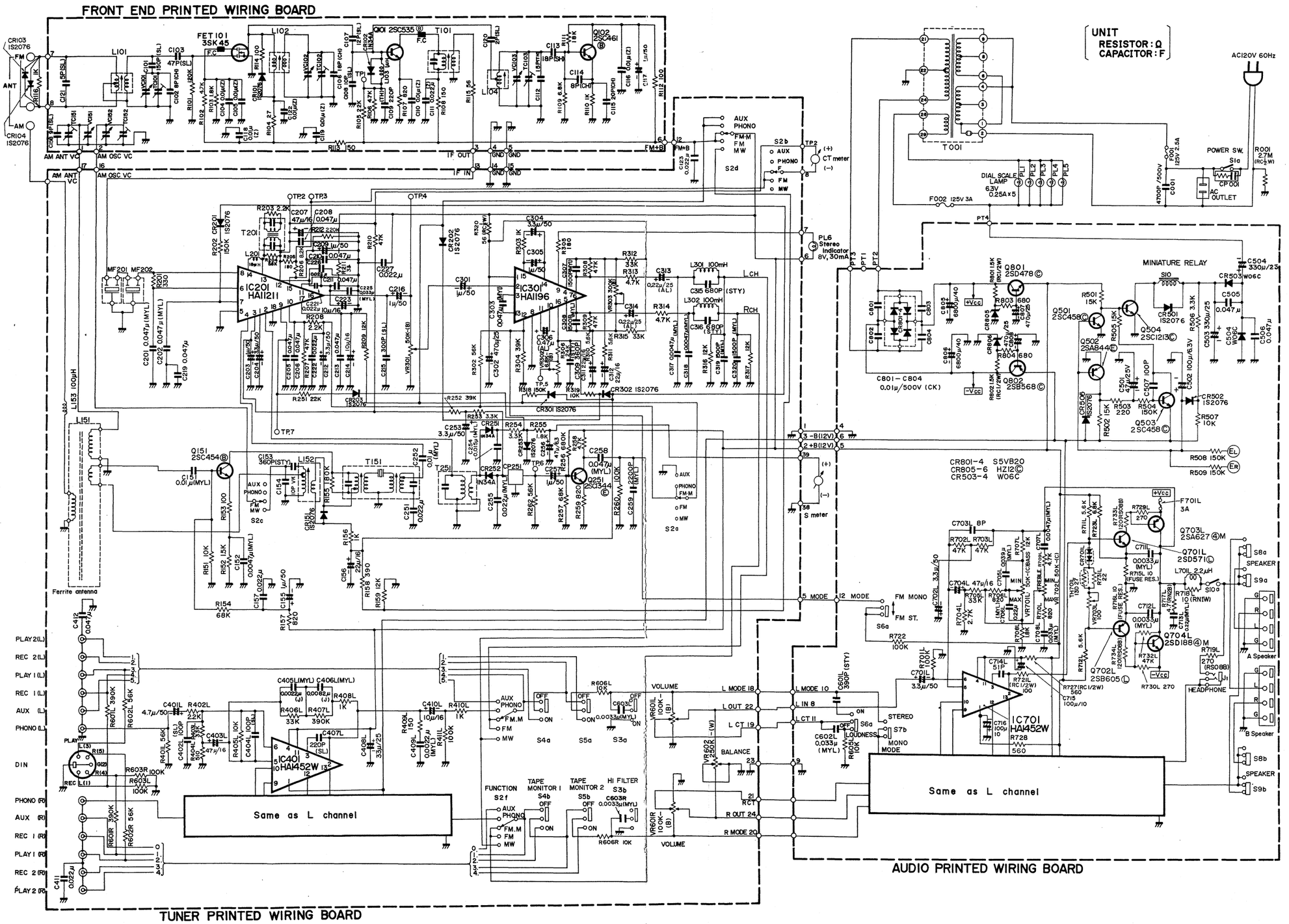
The circuit diagram is subject to change for improvement without notice.



HITACHI SR-503/SR-603

CIRCUIT DIAGRAM · PLAN DE CIRCUIT (SR-603)

The circuit diagram is subject to change for improvement without notice.



REPLACEMENT PARTS LIST · TABLEAU DES PIÈCE

* marked parts used for SR-503
○ marked parts used for SR-603

CAPACITORS

for FRONT END PRINTED WIRING BOARD

SYMBOL NO.	STOCK NO.	DESCRIPTION			
C101	0248688	Ceramic, discal	150pF	±5%	50V
C102	0246418	Ceramic, discal	8pF	±0.25pF	50V
C103	0248676	Ceramic, discal	47pF	±5%	50V
C104	0245017	Ceramic, discal	0.01μF	$^{+80}_{-20}$%	25V
C105	0245017	Ceramic, discal	0.01μF	$^{+80}_{-20}$%	25V
C106	0246446	Ceramic, discal	18pF	±5%	50V
C107	0248662	Ceramic, discal	12pF	±5%	50V
C108	0248640	Ceramic, discal	10pF	±5pF	50V
C109	0248362	Ceramic, discal	220pF	±5%	50V
C110	0245017	Ceramic, discal	0.01μF	$^{+80}_{-20}$%	25V
C111	0245018	Ceramic, discal	0.022μF	$^{+80}_{-20}$%	25V
C112	0248334	Ceramic, discal	15pF	±5%	50V
C113	0248176	Ceramic, discal	18pF	±5%	50V
C114	0246418	Ceramic, discal	8pF	±0.25pF	50V
C115	0246447	Ceramic, discal	20pF	±5%	50V
C116	0245017	Ceramic, discal	0.01μF	$^{+80}_{-20}$%	25V
C117	0252811	Electrolytic	1μF		50V
C118	0245017	Ceramic, discal	0.01μF	$^{+80}_{-20}$%	25V
C119	0245017	Ceramic, discal	0.01μF	$^{+80}_{-20}$%	25V
C120	0248632	Ceramic, discal	2pF	±0.25pF	50V
C121	0248635	Ceramic, discal	5pF	±0.25pF	50V
C122	0245017	Ceramic, discal	0.01μF	$^{+80}_{-20}$%	25V
C158	0248639	Ceramic, discal	9pF	±0.25pF	50V

for TUNER PRINTED WIRING BOARD

C123	0245018	Ceramic, discal	0.022μF	$^{+80}_{-20}$%	25V
C151	0275011	Mylar, film	0.01μF	±10%	50V
C152	0274315	Mylar, film	4700pF	±10%	50V
C153	0228324	Styrol	360pF	±5%	50V
C154	0241882	Ceramic, discal	10pF	±1pF	50V
C155	0252811	Electrolytic	1μF		50V
C156	0252522	Electrolytic	22μF		16V
C157	0245018	Ceramic, discal	0.022μF	$^{+80}_{-20}$%	25V
C201	0275015	Mylar, film	0.047μF	±10%	50V
C202	0275015	Mylar, film	0.047μF	±10%	50V
C203	0252811	Electrolytic	1μF		50V
C204	0252813	Electrolytic	3.3μF		50V
C205	0244175	Ceramic, discal	0.047μF	$^{+80}_{-20}$%	25V
C206	0244175	Ceramic, discal	0.047μF	$^{+80}_{-20}$%	25V
C207	0252525	Electrolytic	47μF		16V
C208	0244175	Ceramic, discal	0.047μF	$^{+80}_{-20}$%	25V
C209	0252811	Electrolytic	1μF		50V
C210	0244175	Ceramic, discal	0.047μF	$^{+80}_{-20}$%	25V
C211	0244175	Ceramic, discal	0.047μF	$^{+80}_{-20}$%	25V
C212	0252813	Electrolytic	3.3μF		50V
C213	0244175	Ceramic, discal	0.047μF	$^{+80}_{-20}$%	25V
C214	0252521	Electrolytic	10μF		16V
C215	0248695	Ceramic, discal	300pF	±5%	50V
C216	0252811	Electrolytic	1μF		50V
C219	0244175	Ceramic, discal	0.047μF	$^{+80}_{-20}$%	25V
C221	0245018	Ceramic, discal	0.022μF	$^{+80}_{-20}$%	25V
C222	0245018	Ceramic, discal	0.022μF	$^{+80}_{-20}$%	25V
C223	0252521	Electrolytic	10μF		16V
C225	0275014	Mylar, film	0.033μF	±10%	50V
C226	0245018	Ceramic, discal	0.022μF	$^{+80}_{-20}$%	25V
C227	0245018	Ceramic, discal	0.022μF	$^{+80}_{-20}$%	25V
C251	0245018	Ceramic, discal	0.022μF	$^{+80}_{-20}$%	25V
C252	0275011	Mylar, film	0.01μF	±10%	50V
C253	0252813	Electrolytic	3.3μF		50V
C254	0275012	Mylar, film	0.015μF	±10%	50V
C255	0275013	Mylar, film	0.022μF	±10%	50V
C256	0252225	Electrolytic	47μF		6.3V
C257	0252811	Electrolytic	1μF		50V
C258	0275015	Mylar, film	0.047μF	±10%	50V
C259	0274013	Mylar, film	2200pF	±10%	50V
C301	0252811	Electrolytic	1μF		50V
C302	0252635	Electrolytic	470μF		25V
C303	0275015	Mylar, film	0.047μF	±10%	50V
C304	0252813	Electrolytic	3.3μF		50V
C305	0252811	Electrolytic	1μF		50V
C306	0251975	Electrolytic	0.47μF		25V
C307	0274012	Mylar, film	1500pF	±10%	50V
C308	0274012	Mylar, film	1500pF	±10%	50V
C309	0221523	Styrol	360pF	±5%	50V
C311	0252522	Electrolytic	22μF		16V
C312	0252522	Electrolytic	22μF		16V
C313	0251973	Electrolytic	0.22μF		25V
C314	0251973	Electrolytic	0.22μF		25V
C315	0228331	Styrol	680pF	±5%	50V
C316	0228331	Styrol	680pF	±5%	50V
C317	0274315	Mylar, film	4700pF	±10%	50V
C318	0274315	Mylar, film	4700pF	±10%	50V
C319	0274012	Mylar, film	1500pF	±10%	50V
C320	0274012	Mylar, film	1500pF	±10%	50V
C401(L,R)	0252815	Electrolytic	4.7μF		50V
C402(L,R)	0248684	Ceramic, discal	100pF	±5%	50V
* C403(L,R)	0252522	Electrolytic	22μF		16V
○ C403(L,R)	0252525	Electrolytic	47μF		16V
C404(L,R)	0248684	Ceramic, discal	100pF	±5%	50V
C405(L,R)	1274213	Mylar, film	2200pF	±5%	50V
C406(L,R)	1274236	Mylar, film	8200pF	±5%	50V
C407(L,R)	0248732	Ceramic, discal	220pF	±10%	50V
* C408(L,R)	0275014	Mylar, film	0.033μF	±10%	50V
○ C408(L)	0252623	Electrolytic	33μF		25V
○ C408(R)	0275014	Mylar, film	0.033μF	±10%	50V
C409(L,R)	0274013	Mylar, film	2200pF	±10%	50V
C410(L,R)	0252521	Electrolytic	10μF		16V
C411	0245018	Ceramic, discal	0.022μF	$^{+80}_{-20}$%	25V
C412	0244175	Ceramic, discal	0.047μF	$^{+80}_{-20}$%	25V
○ C603(L,R)	0274014	Mylar, film	3300pF	±10%	50V

for AUDIO PRINTED WIRING BOARD

○ C501	0252625	Electrolytic	47μF		25V
○ C502	0252231	Electrolytic	100μF		6.3V
○ C503	0252633	Electrolytic	330μF		25V
○ C504	0252633	Electrolytic	330μF		25V
○ C505	0244175	Ceramic, discal	0.047μF	$^{+80}_{-20}$%	50V
○ C506	0244175	Ceramic, discal	0.047μF	$^{+80}_{-20}$%	50V
○ C507	0248724	Ceramic, discal	100pF	±10%	50V
C601(L,R)	0228325	Styrol	390pF	±5%	50V
C602(L,R)	0275014	Mylar, film	0.033μF	±10%	50V
C701(L,R)	0252813	Electrolytic	3.3μF		50V
C702(L,R)	0252813	Electrolytic	3.3μF		50V
* C703(L,R)	0248664	Ceramic, discal	15pF	±5%	50V
○ C703(L,R)	0248648	Ceramic, discal	8pF	±5%	50V
C704(L,R)	0252525	Electrolytic	47μF		16V
C705(L,R)	0275034	Mylar, film	0.039μF	±10%	50V
C706(L,R)	0276013	Mylar, film	0.22μF	±10%	50V
C707(L,R)	0274315	Mylar, film	4700pF	±10%	50V

SYMBOL NO.	STOCK NO.	DESCRIPTION			
C708(L,R)	0275014	Mylar, film	0.033μF	±10%	50V
C709(L,R)	0248710	Ceramic, discal	27pF	±10%	50V
C710(L,R)	0248710	Ceramic, discal	27pF	±10%	50V
C711(L,R)	0274014	Mylar, film	3300pF	±10%	50V
C712(L,R)	0274014	Mylar, film	3300pF	±10%	50V
C713(L,R)	0276013	Mylar, film	0.22μF	±10%	50V
* C714(L,R)	0248720	Ceramic, discal	68pF	±10%	50V
○ C714(L,R)	0248507	Mylar, film	51pF	±10%	50V
C715	0252331	Electrolytic	100μF		10V
C716	0252331	Electrolytic	100μF		10V
* C717(L,R)	0248650	Ceramic, discal	10pF	±5%	50V
C801	0245408	Ceramic, discal	0.01μF	±20%	500V
C802	0245408	Ceramic, discal	0.01μF	±20%	500V
C803	0245408	Ceramic, discal	0.01μF	±20%	500V
C804	0245408	Ceramic, discal	0.01μF	±20%	500V
* C805	0250491	Electrolytic	5600μF		40V
○ C805	0250488	Electrolytic	6800μF		40V
* C806	0250491	Electrolytic	5600μF		40V
○ C806	0250488	Electrolytic	6800μF		40V
C807	0252635	Electrolytic	470μF		25V
C808	0252635	Electrolytic	470μF		25V

for REAR PLATE ASSEMBLY

C001	0243873	Ceramic, discal	4700pF	$^{+80}_{-20}$%	500V

RESISTORS

for FRONT END PRINTED WIRING BOARD

R101	0138203	Carbon film	120kΩ	±5%	SRD¼SD
R102	0138137	Carbon film	4.7kΩ	±5%	SRD¼SD
R103	0138127	Carbon film	1.8kΩ	±5%	SRD¼SD
R104	0138051	Carbon film	27Ω	±5%	SRD¼SD
R105	0138169	Carbon film	22kΩ	±5%	SRD¼SD
R106	0138137	Carbon film	4.7kΩ	±5%	SRD¼SD
R107	0138103	Carbon film	820Ω	±5%	SRD¼SD
R108	0138085	Carbon film	150Ω	±5%	SRD¼SD
R109	0138141	Carbon film	6.8kΩ	±5%	SRD¼SD
R110	0138121	Carbon film	1kΩ	±5%	SRD¼SD
R111	0138167	Carbon film	18kΩ	±5%	SRD¼SD
R112	0138081	Carbon film	100Ω	±5%	SRD¼SD
R113	0138085	Carbon film	150Ω	±5%	SRD¼SD
R114	0138081	Carbon film	100Ω	±5%	SRD¼SD
R115	0138059	Carbon film	56Ω	±5%	SRD¼SD

for TUNER PRINTED WIRING BOARD

R151	0114201	Carbon film	10kΩ	±5%	SRD¼P
R152	0114165	Carbon film	1.5kΩ	±5%	SRD¼P
R153	0114131	Carbon film	100Ω	±5%	SRD¼P
R154	0114221	Carbon film	68kΩ	±5%	SRD¼P
R155	0114287	Carbon film	180kΩ	±5%	SRD¼P
R156	0114161	Carbon film	1kΩ	±5%	SRD¼P
R157	0114153	Carbon film	820Ω	±5%	SRD¼P
R158	0114145	Carbon film	390Ω	±5%	SRD¼P
R159	0114203	Carbon film	12kΩ	±5%	SRD¼P
R201	0138093	Carbon film	330Ω	±5%	SRD¼SD
R202	0114285	Carbon film	150kΩ	±5%	SRD¼P
R203	0114169	Carbon film	2.2kΩ	±5%	SRD¼P
R204	0138139	Carbon film	5.6kΩ	±5%	SRD¼SD
R205	0114137	Carbon film	180Ω	±5%	SRD¼P
R206	0114183	Carbon film	8.2kΩ	±5%	SRD¼P
R207	0114217	Carbon film	47kΩ	±5%	SRD¼P
R208	0114169	Carbon film	2.2kΩ	±5%	SRD¼P
R209	0114203	Carbon film	12kΩ	±5%	SRD¼P
R210	0114217	Carbon film	47kΩ	±5%	SRD¼P
R211	0134295	Composition	33Ω	±10%	RC½GF

SYMBOL NO.	STOCK NO.	DESCRIPTION			
R212	0138209	Carbon film	220kΩ	±5%	SRD¼SD
* R213	0114217	Carbon film	47kΩ	±5%	SRD¼P
* R214	0114283	Carbon film	120kΩ	±5%	SRD¼P
○ R251	0114209	Carbon film	22kΩ	±5%	SRD¼P
R252	0114215	Carbon film	39kΩ	±5%	SRD¼P
R253	0114213	Carbon film	33kΩ	±5%	SRD¼P
* R254	0114179	Carbon film	5.6kΩ	±5%	SRD¼P
○ R254	0114173	Carbon film	3.3kΩ	±5%	SRD¼P
* R255	0114177	Carbon film	4.7kΩ	±5%	SRD¼P
○ R255	0114167	Carbon film	1.8kΩ	±5%	SRD¼P
R256	0114301	Carbon film	680kΩ	±5%	SRD¼P
R257	0114221	Carbon film	68kΩ	±5%	SRD¼P
R258	0114177	Carbon film	4.7kΩ	±5%	SRD¼P
* R259	0114161	Carbon film	1kΩ	±5%	SRD¼P
○ R259	0114153	Carbon film	820Ω	±5%	SRD¼P
R260	0114281	Carbon film	100kΩ	±5%	SRD¼P
R262	0114179	Carbon film	5.6kΩ	±5%	SRD¼P
R302	0114219	Carbon film	56kΩ	±5%	SRD¼P
R303	0138121	Carbon film	1kΩ	±5%	SRD¼SD
R304	0114215	Carbon film	39kΩ	±5%	SRD¼P
R305	0114137	Carbon film	180Ω	±5%	SRD¼P
R306	0110820	Metal	24kΩ	±1%	RN¼B
R308	0114217	Carbon film	47kΩ	±5%	SRD¼P
R309	0114217	Carbon film	47kΩ	±5%	SRD¼P
R310	0114179	Carbon film	5.6kΩ	±5%	SRD¼P
R311	0114179	Carbon film	5.6kΩ	±5%	SRD¼P
R312	0114213	Carbon film	33kΩ	±5%	SRD¼P
R313	0114177	Carbon film	4.7kΩ	±5%	SRD¼P
R314	0114177	Carbon film	4.7kΩ	±5%	SRD¼P
R315	0114213	Carbon film	33kΩ	±5%	SRD¼P
R316	0114203	Carbon film	12kΩ	±5%	SRD¼P
R317	0114203	Carbon film	12kΩ	±5%	SRD¼P
R318	0114285	Carbon film	150kΩ	±5%	SRD¼P
R319	0114201	Carbon film	10kΩ	±5%	SRD¼P
* R320	0134299	Composition	68Ω	±10%	RC½GF
○ R320	0134298	Composition	56Ω	±10%	RC½GF
R401(L,R)	0114219	Carbon film	56kΩ	±5%	SRD¼P
R402(L,R)	0114169	Carbon film	2.2kΩ	±5%	SRD¼P
R403(L,R)	0114213	Carbon film	33kΩ	±5%	SRD¼P
R404(L,R)	0114148	Carbon film	510Ω	±5%	SRD¼P
R405(L,R)	0114201	Carbon film	10kΩ	±5%	SRD¼P
R406(L,R)	0114213	Carbon film	33kΩ	±5%	SRD¼P
R407(L,R)	0114295	Carbon film	390kΩ	±5%	SRD¼P
R408(L,R)	0114161	Carbon film	1kΩ	±5%	SRD¼P
R409(L,R)	0114135	Carbon film	150Ω	±5%	SRD¼P
R410(L,R)	0114161	Carbon film	1kΩ	±5%	SRD¼P
R411(L,R)	0114281	Carbon film	100kΩ	±5%	SRD¼P
R601(L,R)	0114295	Carbon film	390kΩ	±5%	SRD¼P
R602(L,R)	0114219	Carbon film	56kΩ	±5%	SRD¼P
R603(L,R)	0114281	Carbon film	100kΩ	±5%	SRD¼P
R606(L,R)	0114201	Carbon film	10kΩ	±5%	SRD¼P

for AUDIO PRINTED WIRING BOARD

○R501	0114205	Carbon film	15kΩ	±5%	SRD¼P
○R502	0114205	Carbon film	15kΩ	±5%	SRD¼P
○R503	0138089	Carbon film	220Ω	±5%	SRD¼SD
○R504	0114285	Carbon film	150kΩ	±5%	SRD¼P
○R505	0114205	Carbon film	15kΩ	±5%	SRD¼P
○R506	0114173	Carbon film	3.3kΩ	±5%	SRD¼P
○R507	0114201	Carbon film	10kΩ	±5%	SRD¼P
○R508	0114285	Carbon film	150kΩ	±5%	SRD¼P
○R509	0114285	Carbon film	150kΩ	±5%	SRD¼P

SYMBOL NO.	STOCK NO.	DESCRIPTION			
R605(L,R)	0114201	Carbon film	10kΩ	±5%	SRD¼P
R701(L,R)	0114281	Carbon film	100kΩ	±5%	SRD¼P
R702(L,R)	0114217	Carbon film	47kΩ	±5%	SRD¼P
R703(L,R)	0114217	Carbon film	47kΩ	±5%	SRD¼P
R704(L,R)	0114171	Carbon film	2.7kΩ	±5%	SRD¼P
* R705(L,R)	0114211	Carbon film	27kΩ	±5%	SRD¼P
○ R705(L,R)	0114213	Carbon film	33kΩ	±5%	SRD¼P
R706(L,R)	0114153	Carbon film	820Ω	±5%	SRD¼P
R707(L,R)	0114203	Carbon film	12kΩ	±5%	SRD¼P
R708(L,R)	0114167	Carbon film	1.8kΩ	±5%	SRD¼P
R709(L,R)	0114177	Carbon film	4.7kΩ	±5%	SRD¼P
R710(L,R)	0114153	Carbon film	820Ω	±5%	SRD¼P
* R711(L,R)	0114171	Carbon film	2.7kΩ	±5%	SRD¼P
○ R711(L,R)	0114179	Carbon film	5.6kΩ	±5%	SRD¼P
* R712(L,R)	0114171	Carbon film	2.7kΩ	±5%	SRD¼P
○ R712(L,R)	0114179	Carbon film	5.6kΩ	±5%	SRD¼P
* R715(L,R)	0119046	Metal	27Ω	±10%	RN1B
○ R715(L,R)	0110601	Metal	10Ω	±5%	RN¼B
* R716(L,R)	0119046	Metal	27Ω	±10%	RN1B
○ R716(L,R)	0110601	Metal	10Ω	±5%	RN¼B
* R717(L,R)	0119041	Metal	10Ω	±10%	RN1B
○ R717(L,R)	0119139	Metal	4.7Ω	±10%	RN2B
R718(L,R)	0119041	Metal	10Ω	±10%	RN1B
R719(L,R)	0119426	Metal oxide	270Ω	±10%	RD1PA
* R721(L,R)	0114143	Carbon film	330Ω	±5%	SRD¼P
○ R721(L,R)	0134361	Composition	100Ω	±10%	RC½GF
R722	0114281	Carbon film	100kΩ	±5%	SRD¼P
* R723(L,R)	0114181	Carbon film	6.8kΩ	±5%	SRD¼P
* R724(L,R)	0114181	Carbon film	6.8kΩ	±5%	SRD¼P
* R725(L,R)	0114171	Carbon film	2.7kΩ	±5%	SRD¼P
* R726(L,R)	0114171	Carbon film	2.7kΩ	±5%	SRD¼P
* R727	0114147	Carbon film	470Ω	±5%	SRD¼P
○ R727	0134059	Composition	560Ω	±5%	RC½GF
* R728	0114147	Carbon film	470Ω	±5%	SRD¼P
○ R728	0114149	Carbon film	560Ω	±5%	SRD¼P
○ R729(L,R)	0114141	Carbon film	270Ω	±5%	SRD¼P
○ R730(L,R)	0114141	Carbon film	270Ω	±5%	SRD¼P
○ R731(L,R)	0114049	Carbon film	22Ω	±5%	SRD¼P
* R731(L)	0114131	Carbon film	100Ω	±5%	SRD¼P
* R731(R)	0138081	Carbon film	100Ω	±5%	SRD¼P
* R732(L,R)	0114295	Carbon film	390kΩ	±5%	SRD¼P
○ R732(L,R)	0114217	Carbon film	47kΩ	±5%	SRD¼P
○ R733(L,R)	0119422	Metal oxide	120Ω	±10%	RD1PA
○ R734(L,R)	0119422	Metal oxide	120Ω	±10%	RD1PA
* R734(L,R)	0114295	Carbon film	390kΩ	±5%	SRD¼P
R735	0134362	Composition	120Ω	±10%	RC½GF
* R801	0134375	Composition	1.5kΩ	±10%	RC½GF
○ R801	0134458	Composition	1.5kΩ	±10%	RC½GF
* R802	0134375	Composition	1.5kΩ	±10%	RC½GF
○ R802	0134458	Composition	1.5kΩ	±10%	RC½GF
R803	0114151	Carbon film	680Ω	±5%	SRD¼P
R804	0114151	Carbon film	680Ω	±5%	SRD¼P
R001	0139005	Composition	2.7MΩ	±10%	RC½GF
for REAR PLATE ASSEMBLY					
RI16	0114161	Carbon film	1kΩ	±5%	SRD¼P

ICs, TRANSISTORS & FET

for FRONT END PRINTED WIRING BOARD

FET101	2327431	3SK45
Q101	0573510	2SC535 Ⓑ
Q102	0573507	2SC461 Ⓑ

for TUNER PRINTED WIRING BOARD

IC201	2367281	HA11211
IC301	2367271	HA1196
IC401	2367152	HA1452W
Q151	0573491	2SC454 Ⓑ
Q251	2327443	2SC1344 Ⓔ

for AUDIO PRINTED WIRING BOARD

IC701	2367152	HA1452W
○ Q501	2320063	2SC458 Ⓒ
○ Q502	2328083	2SA844 Ⓔ
○ Q503	2320063	2SC458 Ⓒ
○ Q504	2327333	2SC1213 Ⓒ
Q701(L,R)	2328261	2SD571 Ⓛ
Q702(L,R)	2328271	2SB605 Ⓛ
* Q703(L,R)	2328247	2SB565A Ⓒ -01
○ Q703(L,R)	2327811	2SA627 ④M
* Q704(L,R)	2328227	2SD475A Ⓒ -01
○ Q704(L,R)	2327821	2SD188 ④M
Q801	2327802	2SD478 Ⓒ
Q802	2327792	2SB568 Ⓒ

DIODES

for FRONT END PRINTED WIRING BOARD

CR101	2337011	1S2076
CR102	0575002	1N34A

for TUNER PRINTED WIRING BOARD

CR151	2337011	1S2076
CR201	2337011	1S2076
CR202	2337011	1S2076
○ CR203	2337011	1S2076
CR251	0575002	1N34A
CR252	0575002	1N34A
CR253	2337011	1S2076
CR301	2337011	1S2076
CR302	2337011	1S2076
○ CR501	2337011	1S2076
○ CR502	2337011	1S2076
○ CR503	2337083	W06C
○ CR504	2337083	W06C
○ CR505	2337011	1S2076
CR701(L,R)	2347042	MV-5W
* CR703	2347042	MV-5W
* CR801	2327031	V03C
○ CR801-804	2337341	S5VB-20 STACK
* CR802	2327031	V03C
* CR803	2327031	V03C
* CR804	2427031	V03C
CR805	2337103	HZ-12 Ⓒ
CR806	2337103	HZ-12 Ⓒ
○ TH701(L,R)	0576031	13D27

for REAR PLATE ASSEMBLY

CR103	2337011	1S2076
CR104	2337011	1S2076

SYMBOL NO.	STOCK NO.	DESCRIPTION
VARIABLE RESISTORS		
for TUNER PRINTED WIRING BOARD		
VR301	0151225	50kΩ-(B) (Discri. output level adj.)
VR302	0151271	6.8kΩ-(B) (VCO adj.)
VR303	0151284	300kΩ-(B) (Separation adj.)
VR601(L,R)	0156185	100kΩ-(B) (Volume)
VR602	0151678	250kΩ-(W) (Balance)
for AUDIO PRINTED WIRING BOARD		
VR701(L,R)	0151681	50kΩ-(C) (Bass)
VR702(L,R)	0151681	50kΩ-(C) (Treble)
○ VR703(L,R)	0151222	100Ω-(B) (Idle current adj.)
COILS & TRANSFORMERS		
for FRONT END PRINTED WIRING BOARD		
L101	2134741	FM Antenna coil
L102	2134743	FM RF coil
L103	2227081	FM choke coil (1μH)
L104	2134471	FM OSC coil
T101	2154291	FM IF transformer
for TUNER PRINTED WIRING BOARD		
L151	2757291	Ferrite antenna
L152	2134431	MW OSC coil
L153	2227082	Choke coil (100μH)
L201	2227119	Choke coil (18μH)
L301	2227101	Coil (100mH)
L302	2227101	Coil (100mH)
T151	2154182	AM IF transformer
T201	2154271	FM IF transformer
T251	2154122	AM IF transformer
for AUDIO PRINTED WIRING BOARD		
L701(L,R)	2227261	Audio trap coil (2.2μH)
MISCELLANEOUS		
	2506401	Tuner·Front end printed wiring board assembly (SR-503)
	2506402	Tuner·Front end printed wiring board assembly (SR-603)
	2506141	Audio printed wiring board assembly (SR-503)
	2506151	Audio printed wiring board assembly (SR-603)
VC101-103	0281169	Variable capacitor
VC151,152		
TC103	0283121	Trimmer capacitor
CP001	0269017	Spark killer
CP251	0186131	CR multiple component
MF201	2134541	Ceramic filter
MF202	2134541	Ceramic filter
F001	2727081	Fuse-Wired in fuse (2A) (SR-503)
F001	2727084	Fuse-Wired in fuse (2.5A) (SR-603)
F002	2727012	Fuse-fuse (3A)
F701(L,R)	2727223	Fuse-fuse (3A)
S1	2637322	Switch-power switch
S2a-f	2617732	Switch-rotary switch (Function) (SR-503)
S2a-f	2617733	Switch-rotary switch (Function) (SR-603)
S3a,b,S9	2638001	Switch-push switch (FM mute, Tape monitor) (SR-503)
S3a,b,S4a,b, S5a,b	2638001	Switch-push switch (High filter, Tape monitor) (SR-603)

SYMBOL NO.	STOCK NO.	DESCRIPTION
S5,6	2637991	Switch-push switch (Mode, Loudness) (SR-503)
S6,7	2637991	Switch-push switch (Mode, Loudness) (SR-603)
S7,8	2638012	Switch-push switch (Speaker) (SR-503)
S8,9	2638012	Switch-push switch (Speaker) (SR-603)
S10a,b	2647072	Power relay (SR-603)
	2677281	Socket-DIN 5P socket
	2667161	Plug-Short pin plug
J1	2677231	Jack-Headphone jack
T001	2218331	Power transformer (SR-503)
T001	2218341	Power transformer (SR-603)
	3920801	Pulley
	4571921	Flywheel assembly
	4125642	Washer-10 φ washer (SR-503)
	4513311	Earth screw
	4567411	3 φ x 6CT bind screw (yellow)
	4567451	3 φ x 6CT bind screw (silver)
	4784106	3 φ x 8 bind screw
	4567442	3 φ x 8CT bind screw
	4567443	4 φ x 10CT bind screw
	4770255	4 φ flanged nut
	2677321	4P US pin terminal board
	2677341	8P US pin terminal board
	2687792	4P push terminal
	3921301	Bushing (for Power transistor)
for DIAL MECHANISM ASSEMBLY		
	3199771	Dial scale
	4399751	Dial pointer assembly
	0666704	Wire clip
	3338841	Spring
	4398631	Meter panel (SR-503)
	4394983	Meter panel (SR-603)
	3923401	Indicator
	4684135	Indicator cover
	4567411	3 φ x 6CT bind screw
	4398542	Lamp cover assembly
	2577245	Signal meter (SR-503)
	2577294	Signal meter (SR-603)
	2577242	Tuning meter (SR-603)
PL6	2767233	Lamp-indicator lamp (8V, 30mA)
for REAR PLATE ASSEMBLY		
	0043793	Bushing
	4567433	3 φ x 10CT bind screw
	2657281	AC outlet
	2687652	3P mold screw terminal
	2748442	AC power cord
for FINAL ASSEMBLY		
	3244431	Escutcheon assembly (SR-503)
	3244433	Escutcheon assembly (SR-603)
	3282395	Knob-push knob (Power)
	3282806	Knob-push knob (Loudness, Mode)
	3282807	Knob-push knob (Tape monitor)
	3283031	Knob (Bass, Treble, Balance, Volume, Function)
	3284391	Knob (Tuning)
	4743422	Knob ring
	3916411	Leg
	4567413	3 φ x 10CT bind screw
	4567411	3 φ x 6CT bind screw
	4567446	4 φ x 16CT bind screw
	3922511	DIN cap
	3922521	US pin cap
for CABINET ASSEMBLY		
	9403046	Cabinet assembly
for ACCESSORY		
	2748371	FM antenna

Hitachi, Ltd. Tokyo Japan

Head Office : 5-1, 1-chome, Marunouchi, Chiyoda-ku, Tokyo
Tel. : Tokyo (212) 1111 (80 lines)
Cable Address : "HITACHY" TOKYO

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